TOSHIBA

SERVICE MANUAL

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

IMPORTANT NOTICE

WARNING:

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IMPORTANT NOTICE

User's Guide

Contents:

- Install Autodesk DWF Viewer
- Internet Explorer Settings
- Operating Environment
- Functions Provided on Each Drawing Page
- Using with Network

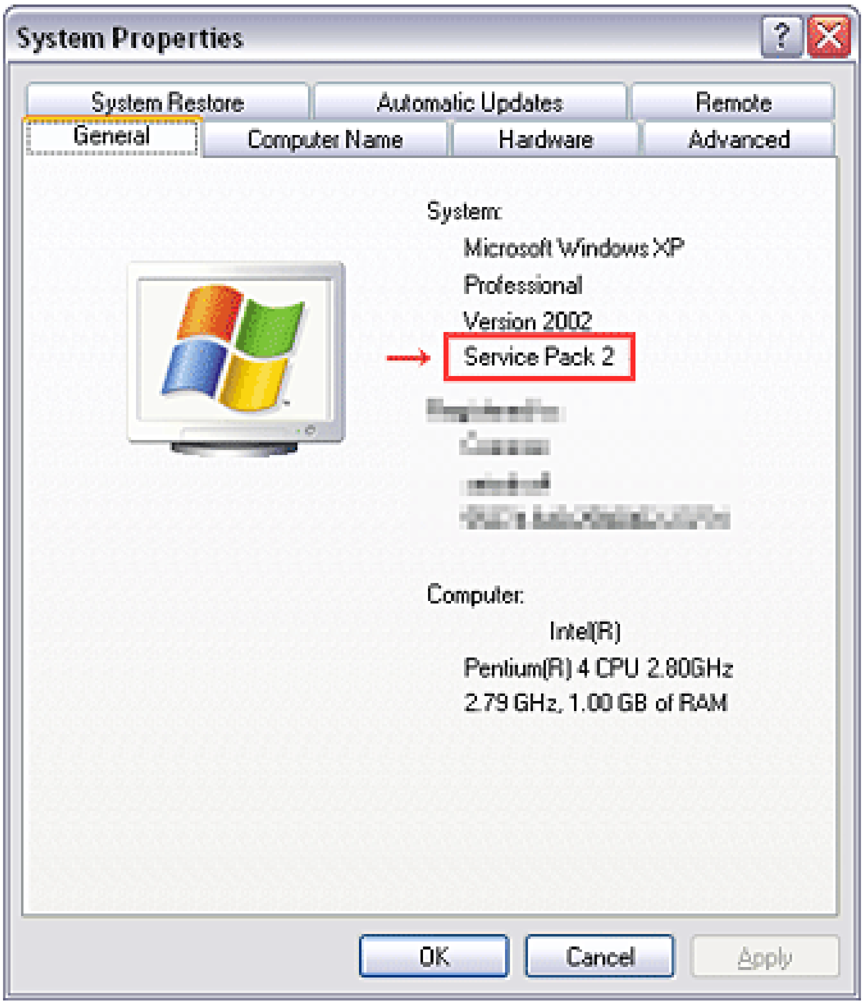
Install Autodesk DWF Viewer

Autodesk DWF Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.

Internet Explorer Settings

When **Windows XP SP2** or **Windows Vista** is used, ActiveX control and pop-up windows are limited by the enhanced security function and this system may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

1. Windows version check
   [My Computer (right-click)] - [Properties]

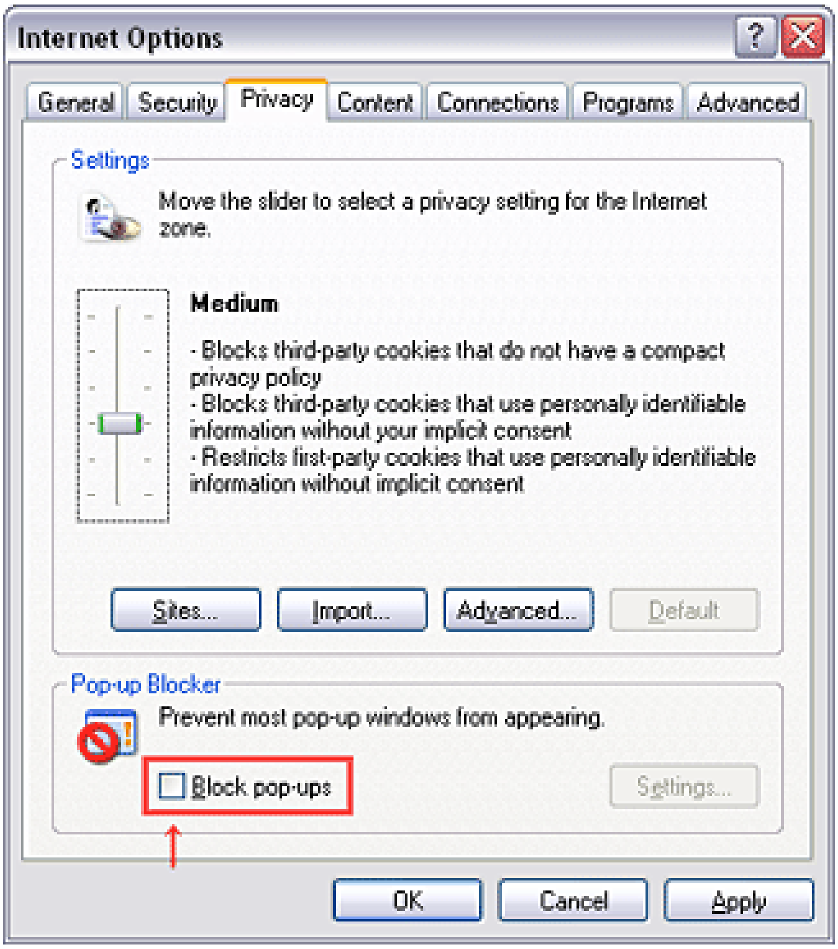

System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
OK
Cancel
Apply

System:
Microsoft Windows XP
Professional
Version 2002
Service Pack 2

[redacted]

Computer:
Intel(R)
Pentium(R) 4 CPU 2.80GHz
2.79 GHz, 1.00 GB of RAM

2. Internet Explorer setting
   [Tools] - [Internet Options]


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Sites...
Import...
Advanced...
Default
Pop-up Blocker
Settings...
OK
Cancel
Apply

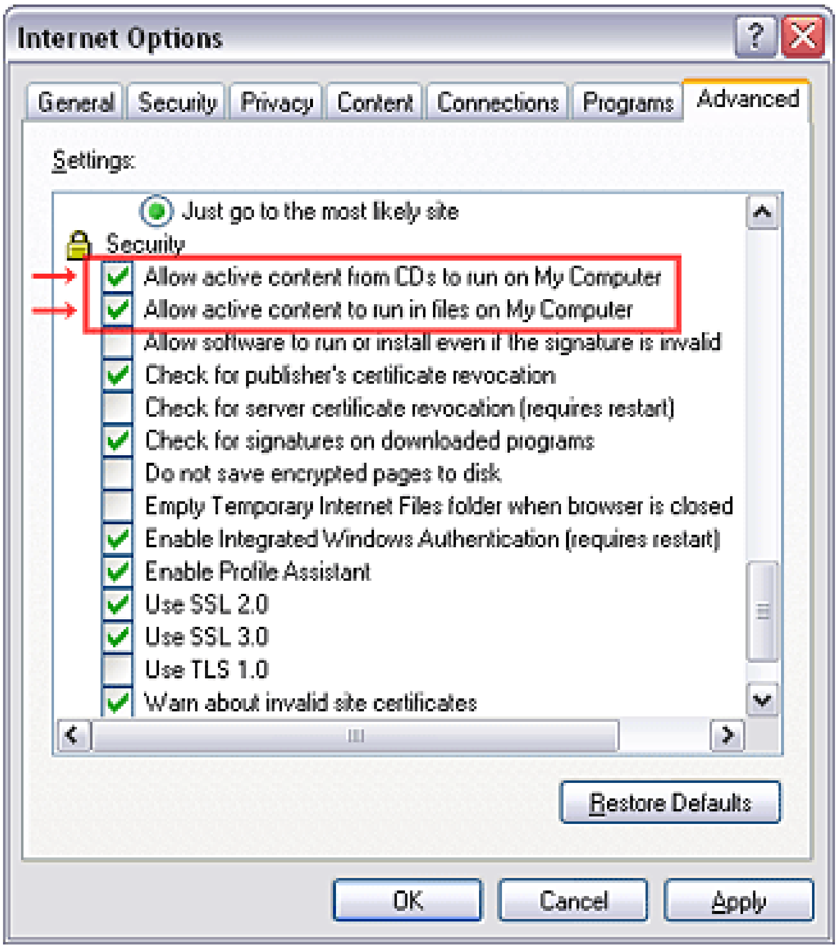
Move the slider to select a privacy setting for the Internet zone.

Medium

- Blocks third-party cookies that do not have a compact privacy policy
- Blocks third-party cookies that use personally identifiable information without your implicit consent
- Restricts first-party cookies that use personally identifiable information without implicit consent

Prevent most pop-up windows from appearing.

☐ Block pop-ups

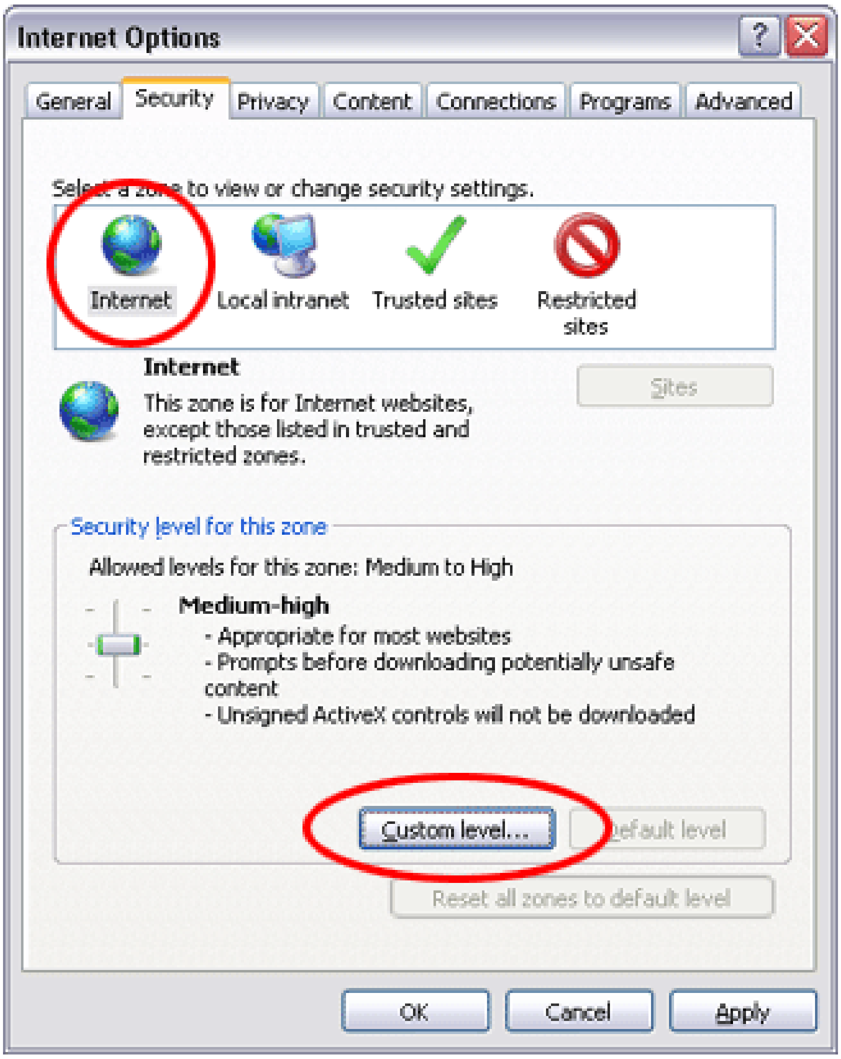

Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings:
Restore Defaults
OK
Cancel
Apply

● Just go to the most likely site

Security

☑ Allow active content from CDs to run on My Computer
☑ Allow active content to run in files on My Computer
☐ Allow software to run or install even if the signature is invalid
☑ Check for publisher's certificate revocation
☐ Check for server certificate revocation (requires restart)
☑ Check for signatures on downloaded programs
☐ Do not save encrypted pages to disk
☐ Empty Temporary Internet Files folder when browser is closed
☑ Enable Integrated Windows Authentication (requires restart)
☑ Enable Profile Assistant
☑ Use SSL 2.0
☑ Use SSL 3.0
☐ Use TLS 1.0
☑ Warn about invalid site certificates

for Internet Explorer 7


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Internet
Local intranet
Trusted sites
Restricted sites
Sites
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply

Select a zone to view or change security settings.

Internet

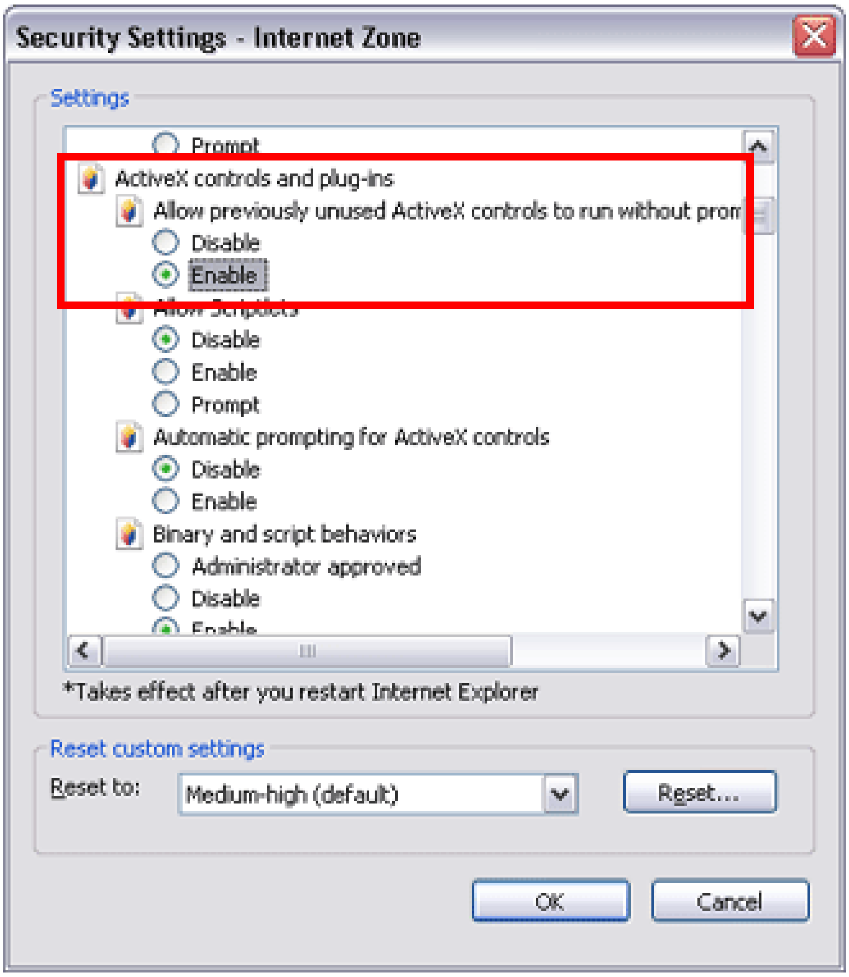
This zone is for Internet websites, except those listed in trusted and restricted zones.

Security level for this zone

Allowed levels for this zone: Medium to High

Medium-high

- Appropriate for most websites
- Prompts before downloading potentially unsafe content
- Unsigned ActiveX controls will not be downloaded


Security Settings - Internet Zone
Settings
Reset custom settings
Reset...
OK
Cancel

○ Prompt

ActiveX controls and plug-ins

Allow previously unused ActiveX controls to run without prom

○ Disable

● Enable

Allow Scriptlets

● Disable

○ Enable

○ Prompt

Automatic prompting for ActiveX controls

● Disable

○ Enable

Binary and script behaviors

○ Administrator approved

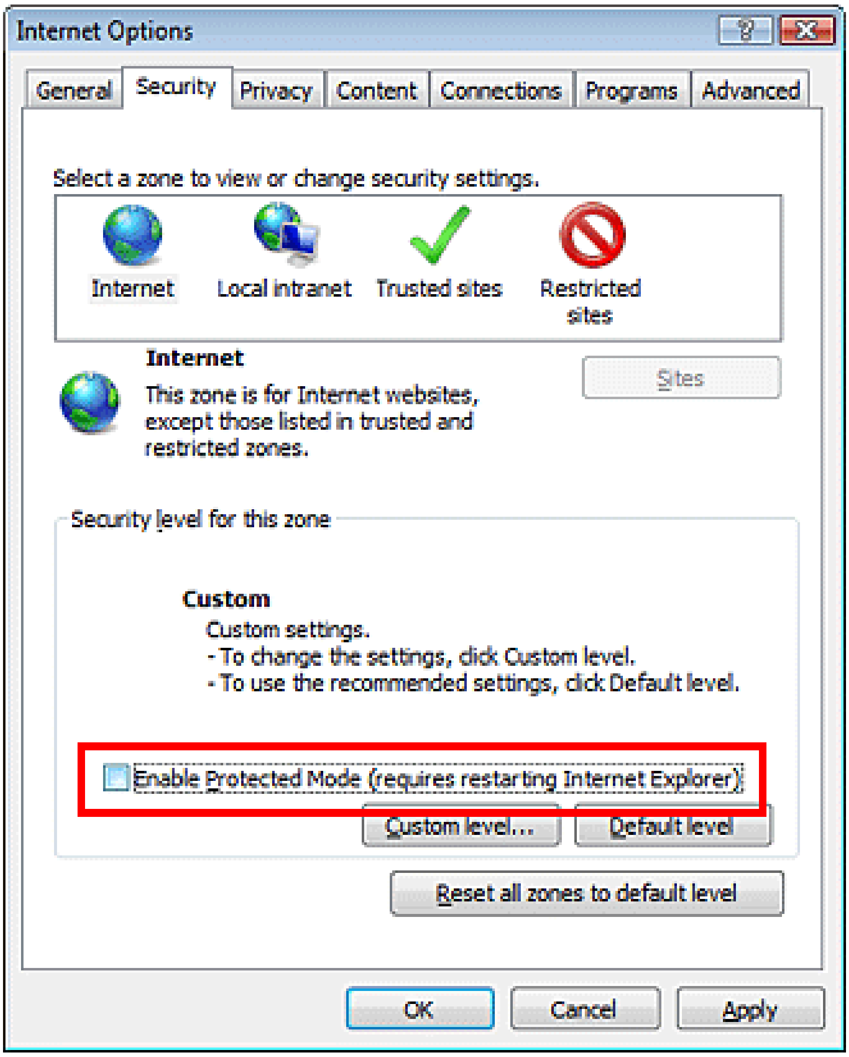
○ Disable

● Enable

*Takes effect after you restart Internet Explorer

Reset to: Medium-high (default)

for Windows Vista


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Internet
Local intranet
Trusted sites
Restricted sites
Sites
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply

Select a zone to view or change security settings.

Internet

This zone is for Internet websites, except those listed in trusted and restricted zones.

Security level for this zone

Custom

Custom settings.
- To change the settings, click Custom level.
- To use the recommended settings, click Default level.

☐ Enable Protected Mode (requires restarting Internet Explorer)

Operating Environment

PC : Pentium III or higher recommended

Monitor : 1024 x 768 or higher resolution recommended

Mouse : A mouse with wheel recommended

OS : Microsoft Windows 2000 SP4 / XP / Vista

Browser : Microsoft Internet Explorer 6.0 / 7.0

Drawing viewer : Autodesk DWF Viewer 6

* Use the software following respective license terms and conditions.

Functions Provided on Each Drawing Page

Parts Information Reference Function

When the character string of a part on the drawing is clicked, its information is popped up at the location. You can get any parts information immediately on the screen without referring to the maintenance parts list.

Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view by specifying a location number. The pop-up window displayed by clicking a part 's character string allows to search the part within the applicable schematic diagram, board view or spare parts list.

A circle appears when the part is found, showing the part's location within the drawing.

Signal Line/Connector Destination Display Function

When a name at the end of a signal line in a divided schematic diagram is clicked, the destination of the signal is searched and the display changes to the destination. Connecter destinations can also be searched in the same way.

When two or more search results are provided, their drawing names are displayed, allowing you to choose a desired drawing to display.

Layer Display Changing Function

When any of the color buttons on the toolbar is clicked, it can be selected to display desired layer in its color or not to display each layer. This allows you to see the pattern layer only by setting other layers to "non-display".

PC Board View Pattern Highlighting Function

When a pattern on a board view is clicked, it is highlighted in green. This allows easy pattern tracing.

Specified Area Printing Function

The Autodesk DWF Viewer enables to print the displayed drawing region as it is on a printer. It also allows to print a large-sized drawing in multiple pieces (tile printing).

Using with Network

Precaution

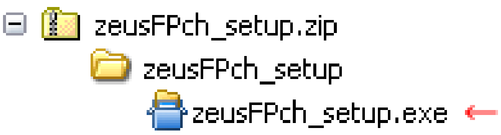
To use ZEUS Service Manual Ver.2 with network, the file-path names written on the source files of each ZEUS Engine Program Ver.2 and ZEUS Service Manual Ver.2 are to be modified.

To change the file path, it is required the exclusive utility program "**ZEUS File-Path Exchanger**".

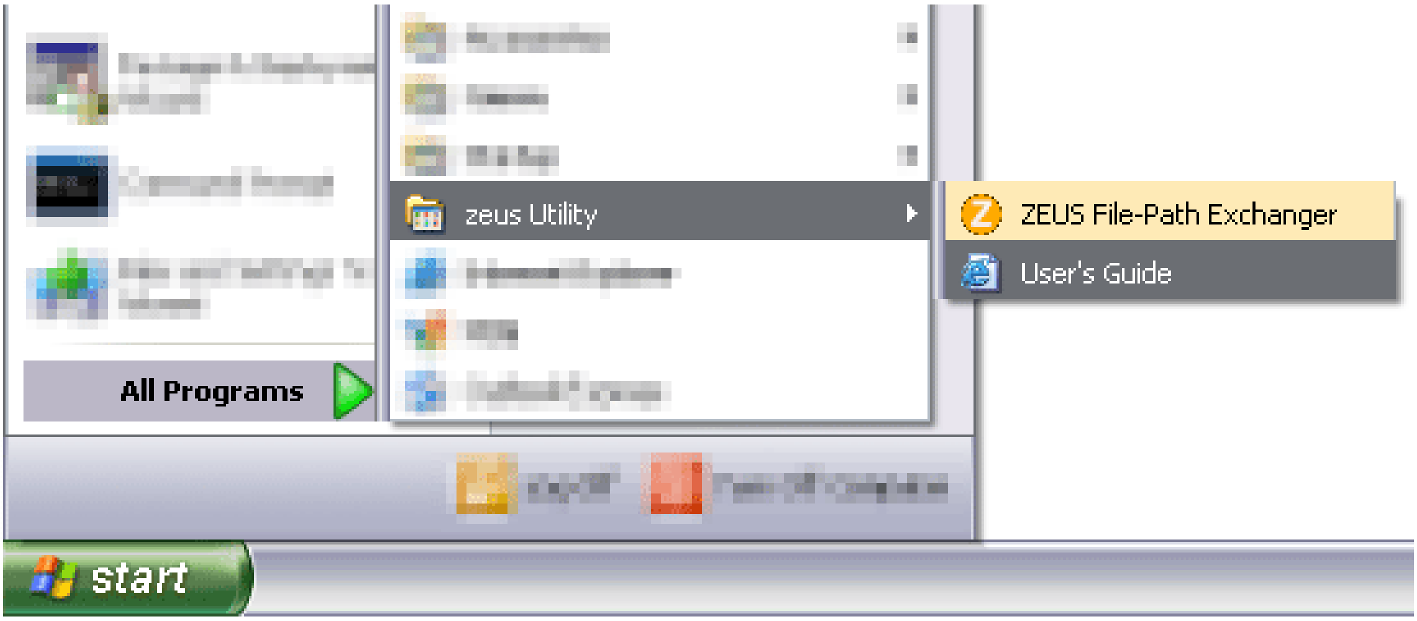
Download zeusFPch.zip and detach it into the appropriate folder.
Unzip it and run the program under \zeusFPch_setup\zeusFPch_setup.exe to install into default folder C:\Program Files\zeusFPch.

When exchanging the file path, refer to the User's Guide or contact to the nearest Toshiba service center for further assistance.

-> Download **ZEUS File-Path Exchanger** (zeusFPch_setup.zip 2.0MB)



zeusFPch_setup.zip
  zeusFPch_setup
    zeusFPch_setup.exe ←


All Programs
zeus Utility
ZEUS File-Path Exchanger
User's Guide
start

The **ZEUS File-Path Exchanger** is the exclusive program to exchange the file-path names written in both source files of ZEUS Service Manual Ver.2 and ZEUS Engine Program Ver.2 into those applicable to the network use.

Note:

In case of accessing the ZEUS Service Manual through WEB site, the small pop-up window appears at the left bottom corner on the screen whenever searching the location links. This is not malfunction.

ZEUS

Next

Move cursor to the text highlightened blue.
Do not change the install folder from the installer default.
If DWF Viewer 6 has been installed, skip "Step: 3".

Step 1 : Install ZEUS Ver. 2.0 program (1MB)

Step 2 : Internet Explorer Settings

Step 3 : Install DWF Viewer 6.0 (6MB)

Step 4 : Install DWF Viewer 6.0 Patch2 (0.8MB)

Step 5 : System Check

<- Back

Checking ZEUS program ...

Click "Yes" in the alert window of the ActiveX control to continue.

IMPORTANT NOTICE

A Known Malfunction

Autodesk® DWF™ Viewer version (Free software provided through WEB)

ZEUS format service manual works with Autodesk DWF Viewer 6 only.

To get Autodesk DWF Viewer 6, open the User's Guide and click the icon button for download, or contact to the nearest Toshiba Service Centre for further assistance.

If the different version has been installed, uninstall it completely and install Autodesk DWF Viewer 6.

1. Uninstall the different version

2. Delete folder
   C:\Program Files\Autodesk\Autodesk DWF Viewer
   C:\Program Files\Common Files\Autodesk Shared\dwf common

3. Install Autodesk DWF Viewer 6

Freezing windows opened (Cannot close the open windows)

This may happen occasionally.
In case of encountering this, follow the procedure below.

1. Press [Ctrl], [Alt] and [Delete] keys at the same time to engage windows security windows.

2. Then, choose TASK manager and Application tab, and select TOSHIBA SERVICE MANUAL-Microsoft Internet Explorer.

3. Click TASK-end.

Main Window back forwarded

The real cause has not been found yet but with this condition, nothing disturbs the service manual operation.
Continue to use by operating the windows.

Precaution when opening the diagrams

While opening the diagrams, the menu in the left frame changes its color to GRAY. This is an indication that the viewer is processing.

With this condition, the menu indication color may stick to the GRAY color or Windows may freeze if clicking other menu.

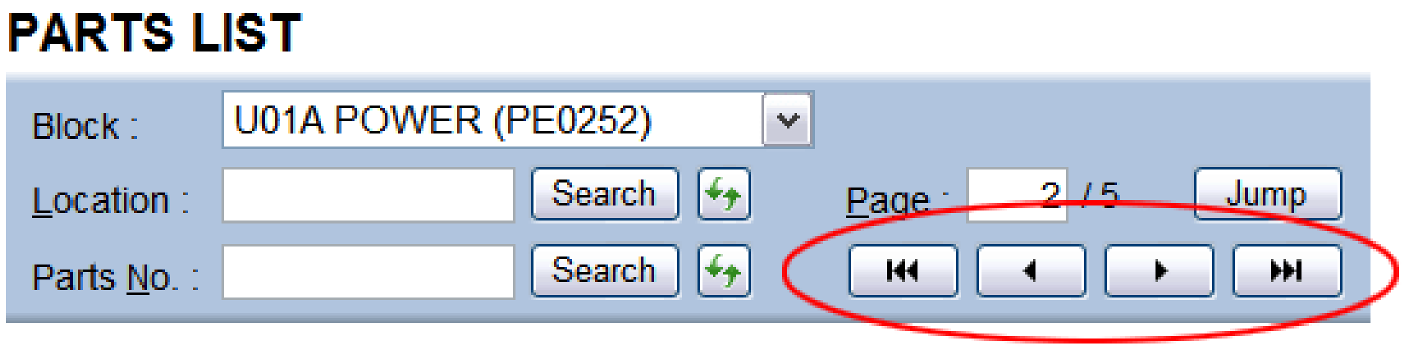
To avoid such things, do not operate any others while menu turns GRAY color.

If entering this, re-open the service manual or refresh the left frame.

Freezing IE browser during the page searching in the part list

The browser IE may freeze if the page forward/reverse button is clicked in double or triple click action by mouse to forward (Next page) / reverse (Previous Page) the pages.

Once the IE operation is interrupted by freezing, Open the service manual by referring to the "**Freezing windows opened**"



PARTS LIST

Block : U01A POWER (PE0252)

Page : 2 / 5

Location :
Parts No. :
Search
Search
Jump
⏮
◀
▶
⏭

Part searching malfunction when returning to the part list by using browser Back button

By using browser's "Back" button click to resume the previous part list, the part search function may be malfunction. Click the part list menu in the left frame to reload the part list.

SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

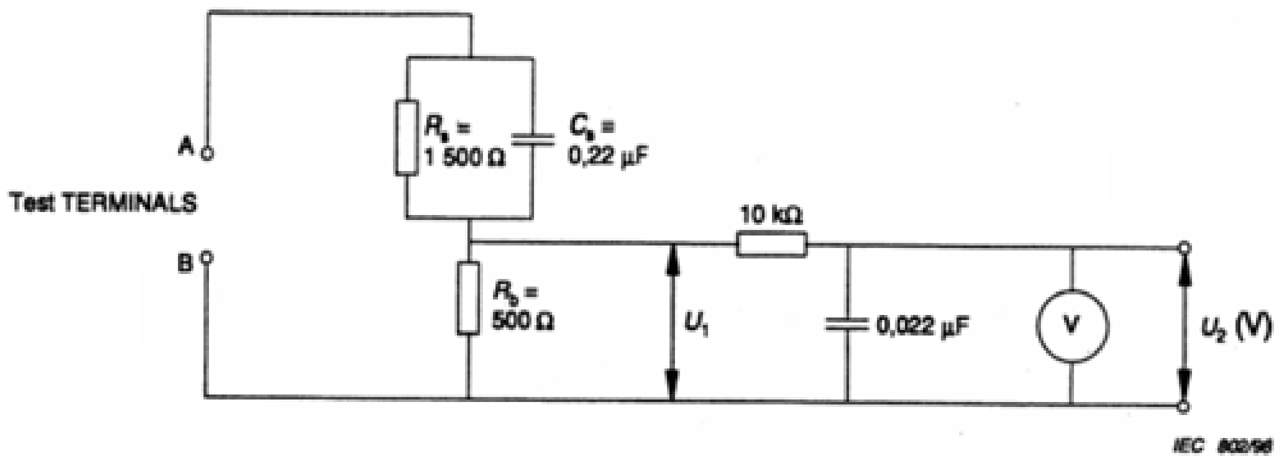
10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)

    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.

    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≥ 1 MΩ
Input capacitance : ≤ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

   The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
   - for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
   - for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

Handling the LCD Module

Safety Precaution

In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.

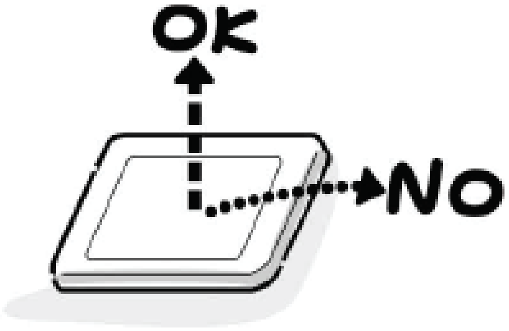
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

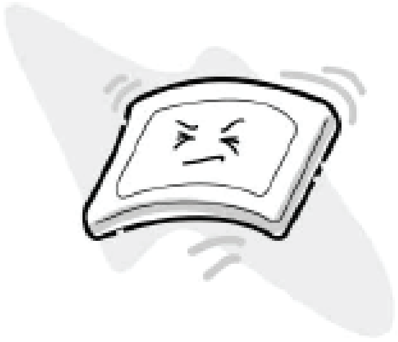
The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

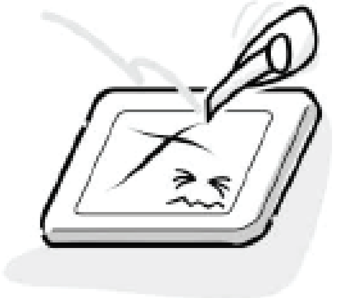
1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



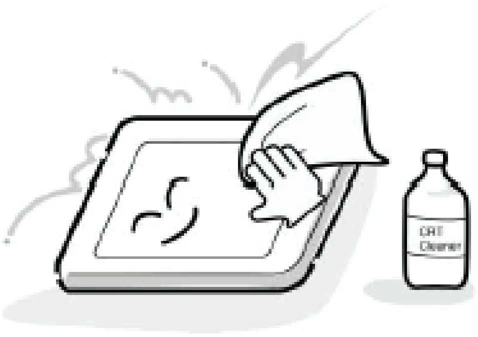
2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in

the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.





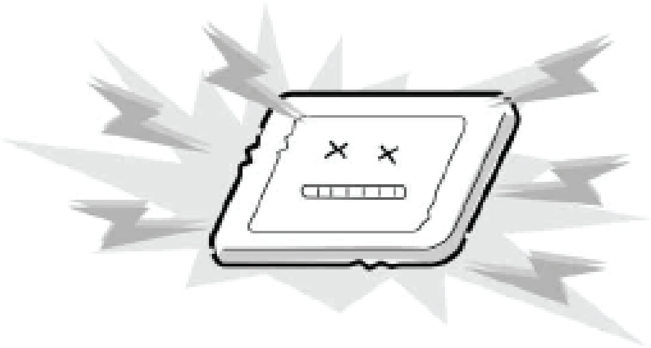
3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

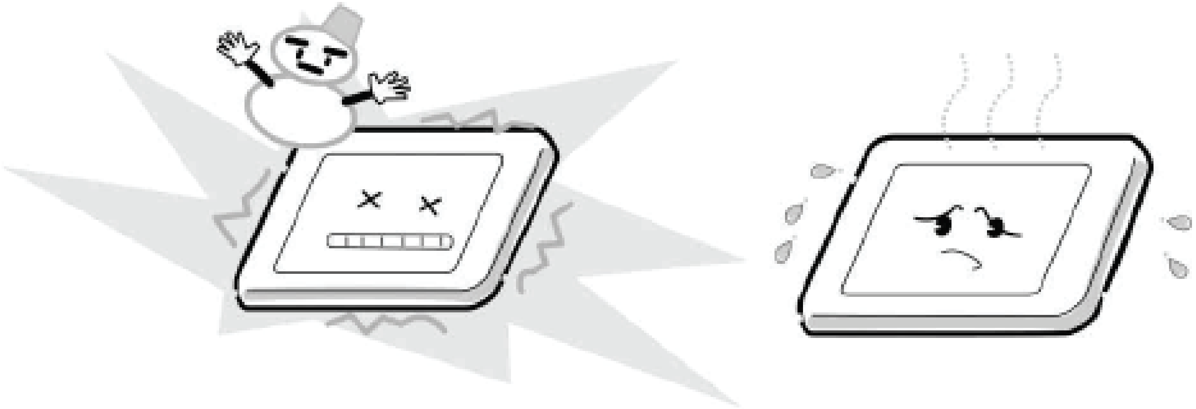
5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

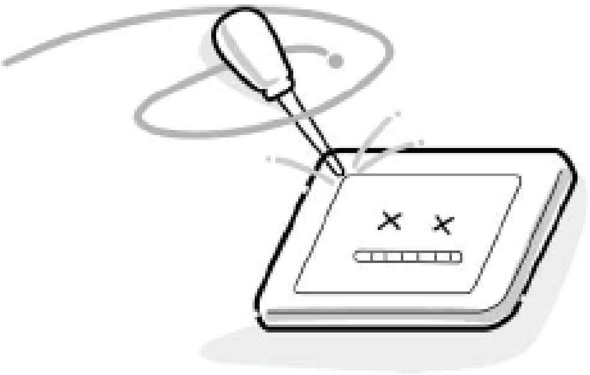


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

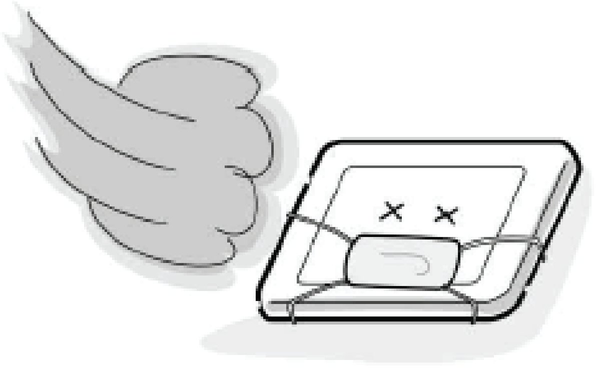
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.



9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals.
Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

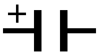
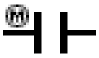
Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR
   Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

   1/2R : Metal or Metal oxide of 1/2 watt
   1/2S : Carbon composition of 1/2 watt
   1RF : Fuse resistor of 1 watt
   10 W : Cement of 10 watt
   K : ±10 %
   G : ±2 %
   F : ±1 %

2. CAPACITOR
   Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

    = Electrolytic capacitor
    = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.

4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

6. Voltage reading shown are nominal values and may vary ±20 % except H.V.

CAUTION FOR REMOVING HDMI CONNECTOR

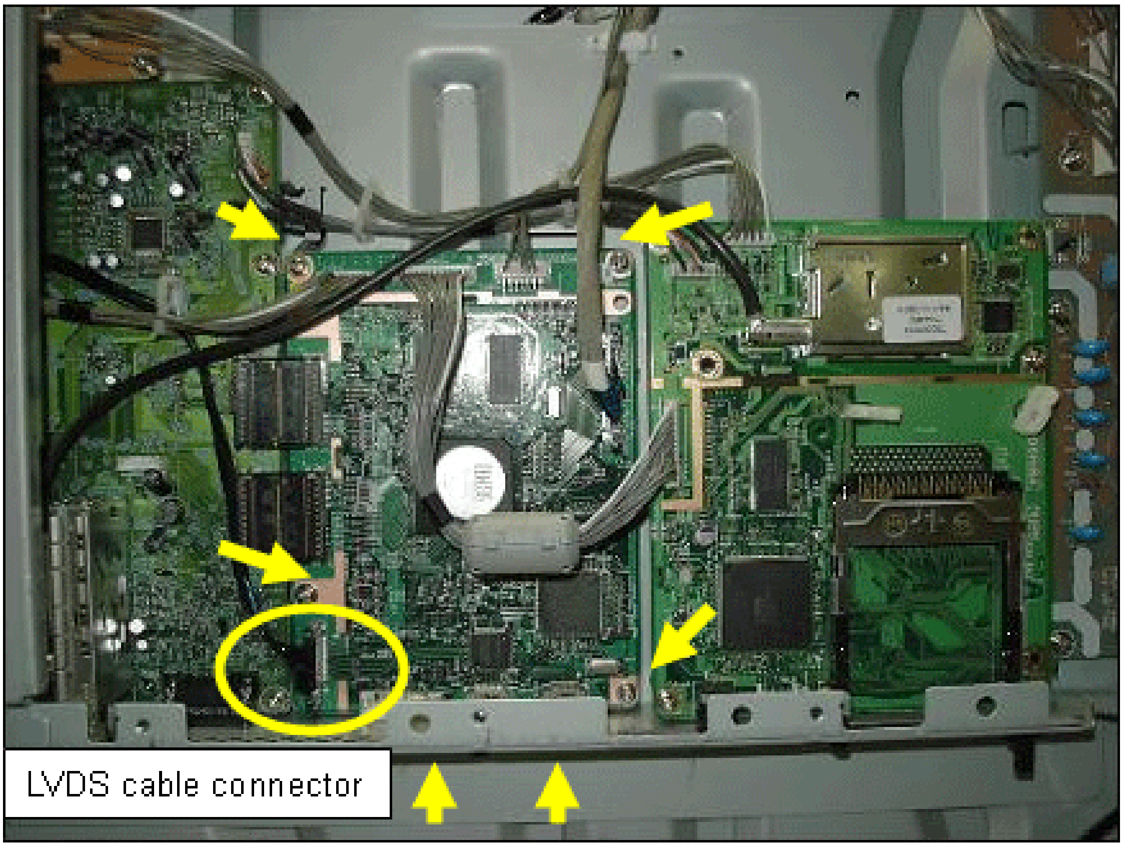
When removing the SIGNAL unit, pay attention to disconnect the connector LVDS cable connector which has the lock claws.

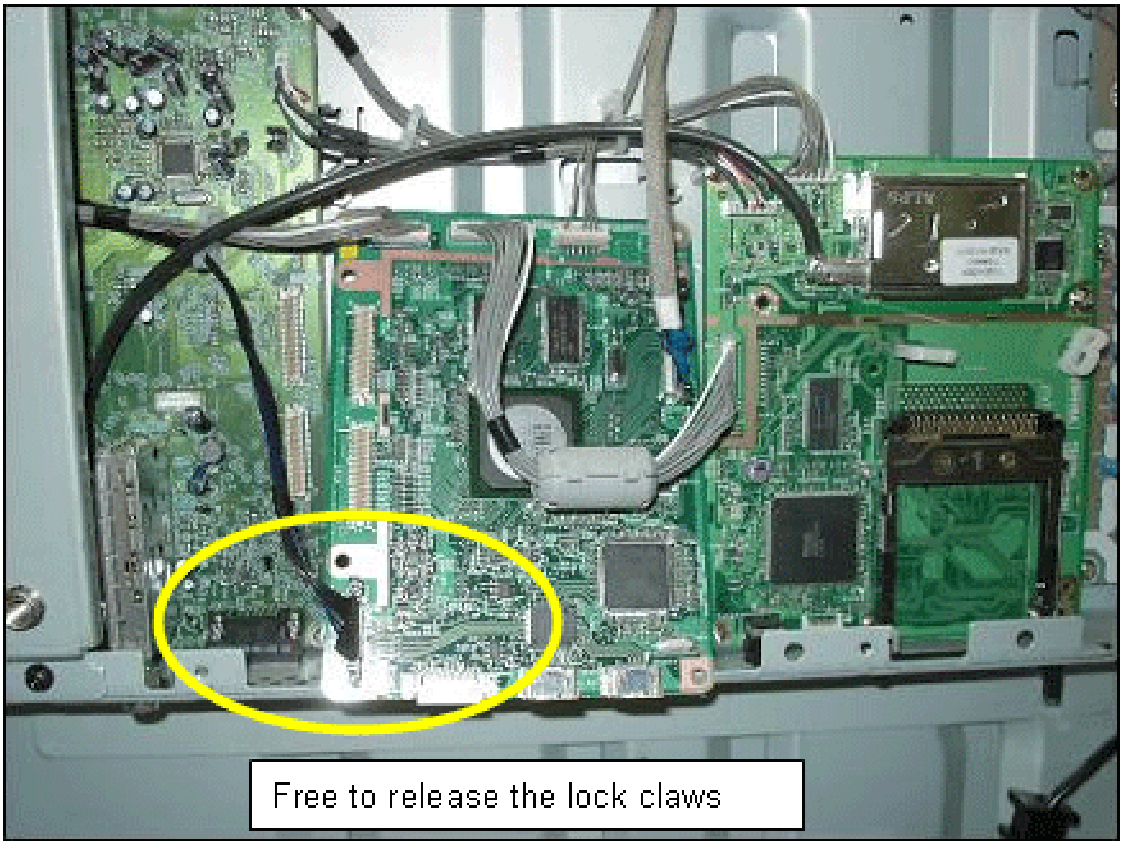
The lower part clearance between the lock claw and metal chassis is too narrow.

To avoid any possible damages, follow the procedure below.

Procedure 1 (Recommended Strongly)

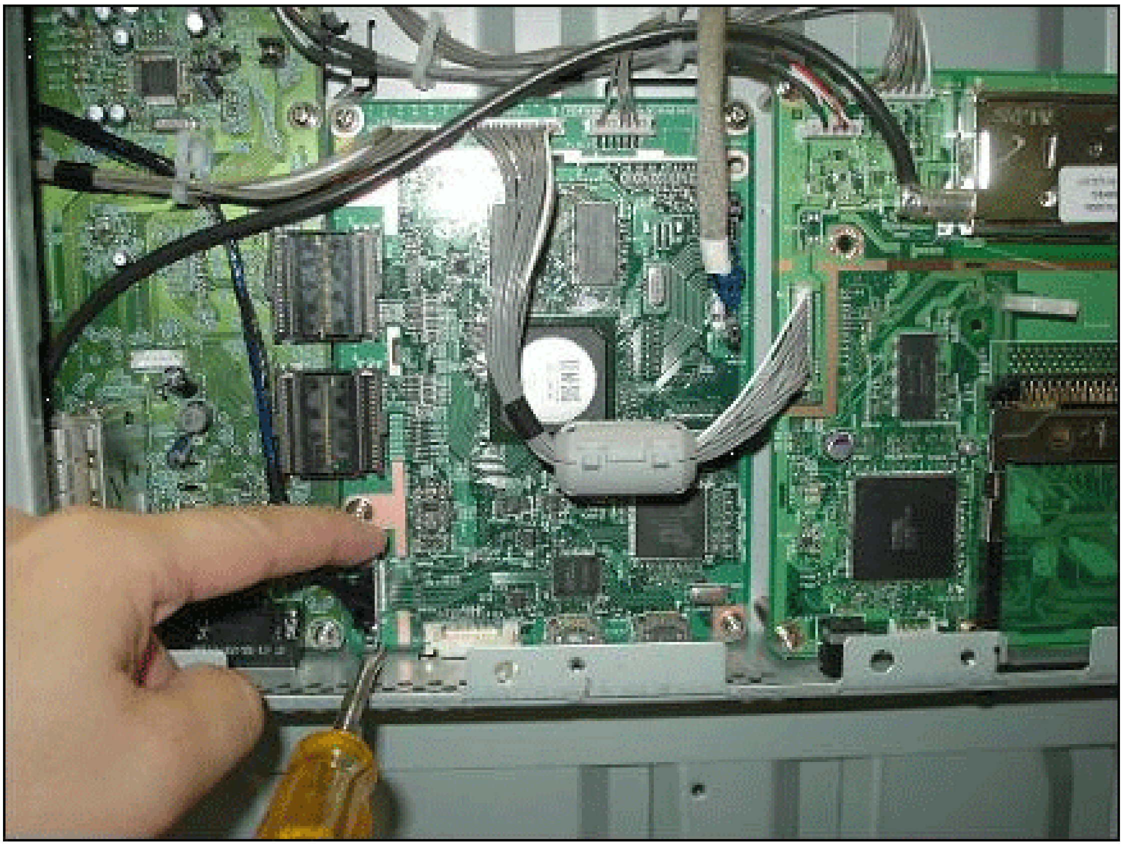
By removing the fixing screws on the Signal unit, it will be free and ease to release the lock claws.




Free to release the lock claws

Procedure 2

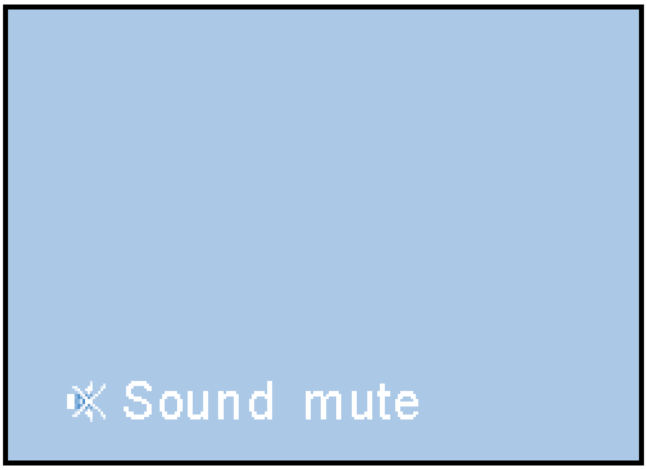
While releasing the lower part lock claw with flat bed screwdriver and the upper lock claw with finger, pull out the connector.



ADJUSTMENT

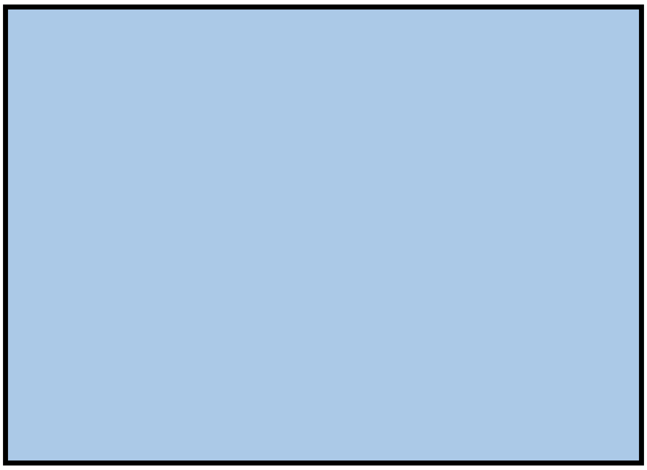
Service Mode

Entering to Service Mode



1. Set VOLUME to minimum and press 🔇 button once on remote control.

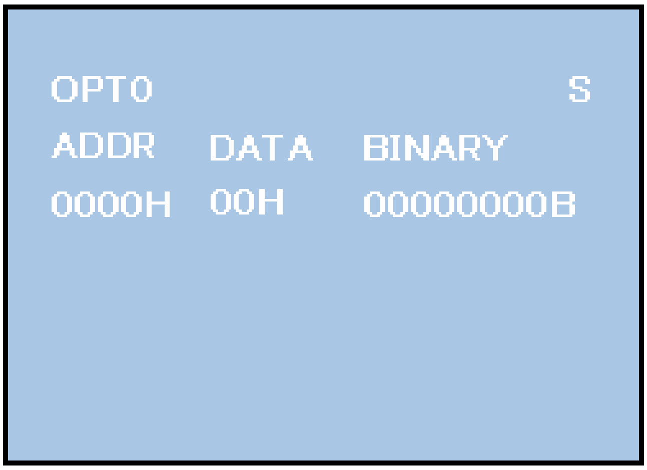
↓



2. Press 🔇 button again and hold button down.

↓

Service Mode display



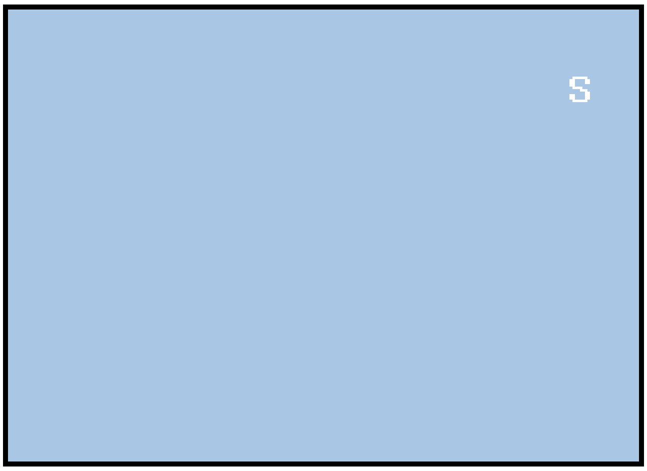
```
OPTO                         S
ADDR     DATA     BINARY
0000H    00H      00000000B
```

3. While holding the 🔇 button, press MENU button on TV set.

Displaying the Adjustment Menu

Press MENU button on TV.

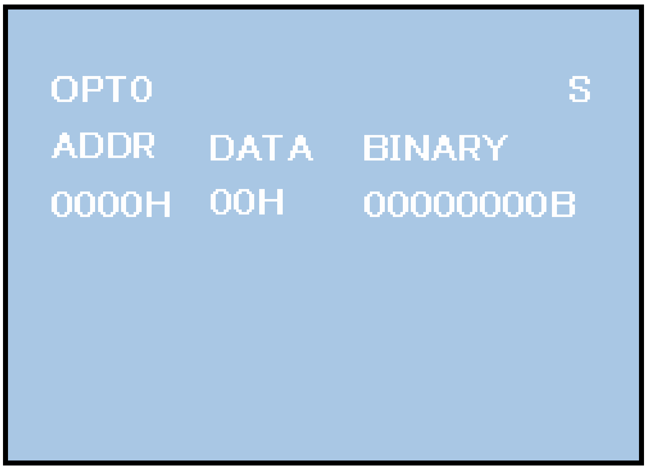
Service Mode



```
                             S
```

Press ↑ ↓ Press

Adjustment Mode



```
OPTO                 S
ADDR   DATA   BINARY
0000H  00H    00000000B
```

Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

Test signal selection	⊕ button (on remote control)
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ◢ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume ◢ + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button

"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE

BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME
PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR SIZE)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN
FPLG	MASK_ENABLE (SD/HD)
FPLG2	Channel LOGO Vector Clip SW (SD)
FPLG3	Channel LOGO Vector Clip SW (HD)

Factory preset data will be loaded after setting Model ID data.
(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME ⊿ +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

1) Press and hold the CALL button on the remote control, then press the Volume ⊿ + button on the TV.

2) Display "BUS Off" OSD.

3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume ⊿ + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press ⊿ + or ⊿ - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)

D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.
Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ⊿+ or ⊿- to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
XF350	EU/UK Digital/Ready	40XF350P/351P/355D/356D	SAMSUNG	0x86	0x0F
		46XF350P/351P/355D/356D	SAMSUNG	0X86	0X0A

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	LPL	-	-	-	-	0	0	0	1
	SHP	-	-	-	-	0	0	1	0
	CMO	-	-	-	-	0	0	1	1
	AUO PMVA	-	-	-	-	0	1	0	0
	AUO AMVA	-	-	-	-	0	1	0	1
	SAMSUNG	-	-	-	-	0	1	1	0
	IPS	-	-	-	-	0	1	1	1

Panel Resolution	Full HD	1	-	-	-	-	-	-	-
	WXGA	0	-	-	-	-	-	-	-
Panel 100Hz	On	-	1	-	-	-	-	-	-
	Off	-	0	-	-	-	-	-	-

OP5

Ex. OPT5 value 0x06 indicates that panel size is 37.

		OPT5							
		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Size	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1
	47	-	-	-	-	1	0	0	0
	52	-	-	-	-	1	0	1	1
	57	-	-	-	-	1	1	0	1

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		**D7**	**D6**	**D5**	**D4**
Low nibble		**D3**	**D2**	**D1**	**D0**
HEX	**0**	0	0	0	0
	1	0	0	0	**1**
	2	0	0	**1**	0
	3	0	0	**1**	**1**

	4	0	**1**	0	0
	5	0	**1**	0	**1**
	6	0	**1**	**1**	0
	7	0	**1**	**1**	**1**
	8	**1**	0	0	0
	9	**1**	0	0	**1**
	A	**1**	0	**1**	0
	B	**1**	0	**1**	**1**
	C	**1**	**1**	0	0
	D	**1**	**1**	0	**1**
	E	**1**	**1**	**1**	0
	F	**1**	**1**	**1**	**1**

E.g. If Bit D7-0 = 0**1**0**1** **1**0**1**0, Hex data is 0x**5A**.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced. Whenever using new signal board to the set, setting the Model ID data according to Panel option data.

1) Enter the service mode.

2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.

3) Change ID data into MODEL ID to initialize by pressing ⊿+ or ⊿-, refer to table below.

4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.

5) Initialization progress dialog including model name and panel vendor is shown.
Progress status is "WRITING".

6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.

7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).

Note:

In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

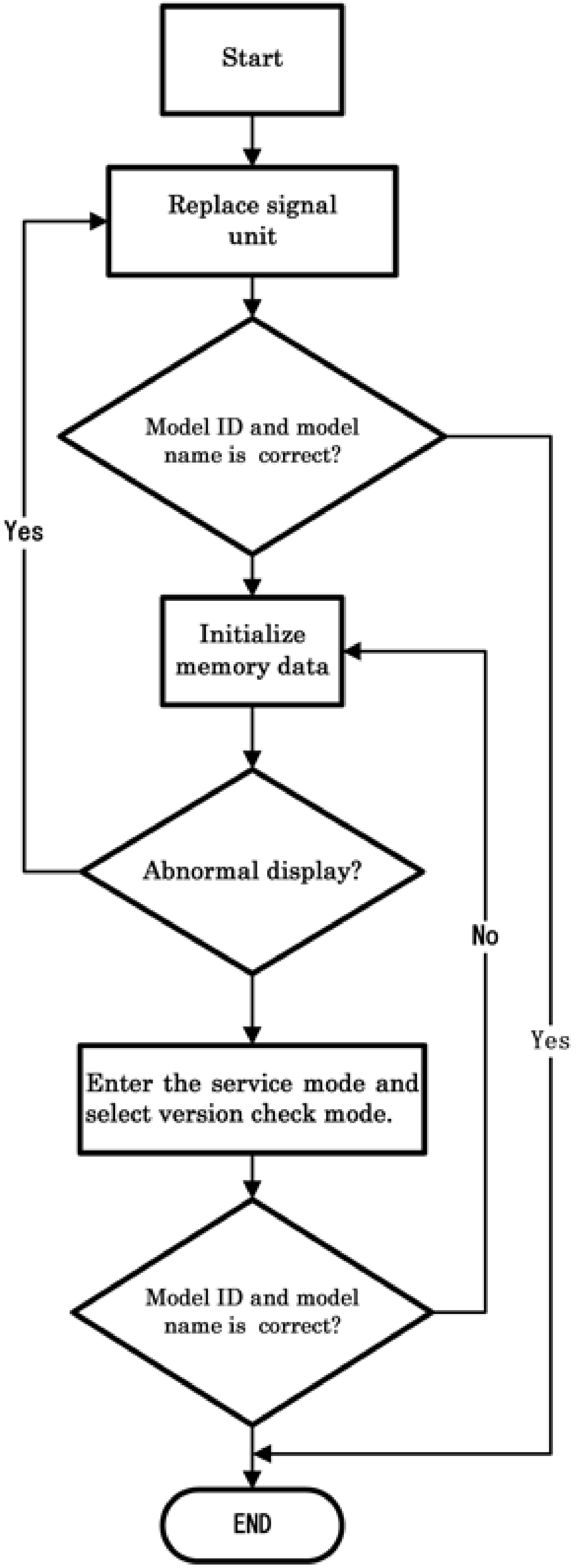
8) Set I2C check function of TVOP to enable.

9) Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	Model name	Panel vendor
0x01	40XF350P/351P	SAMSUNG
0x02	46XF350P/351P	SAMSUNG
0x03	40XF355D/356D	SAMSUNG
0x04	46XF355D/356D	SAMSUNG
0x05		
0x06		
0x07		
0x08		

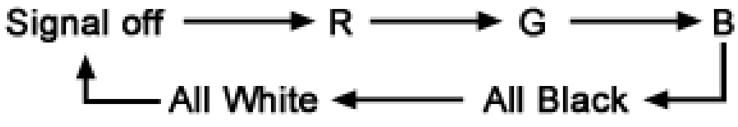
0x09		
0x10		
0x11		
0x12		
0x13		
0x14		
0x15		
0x16		
0x17		
0x18		
0x19		
0x20		
0x21		
0x22		
0x23		
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		
0x31		
0x32		
0x33		

Initializing Data setting flowchart after replacing the Signal Unit


Start
Replace signal unit
Model ID and model name is correct?
Yes
Initialize memory data
Abnormal display?
No
Yes
Enter the service mode and select version check mode.
Model ID and model name is correct?
END

Test Signal Selection

Every pressing of -(→) button on the remote control changes the built-in test patterns on screen as described below in Service Mode.


Signal off
R
G
B
All Black
All White

Picture	Signal
🟥	Red raster
🟩	Green raster
🟦	Blue raster
⬛	All Black

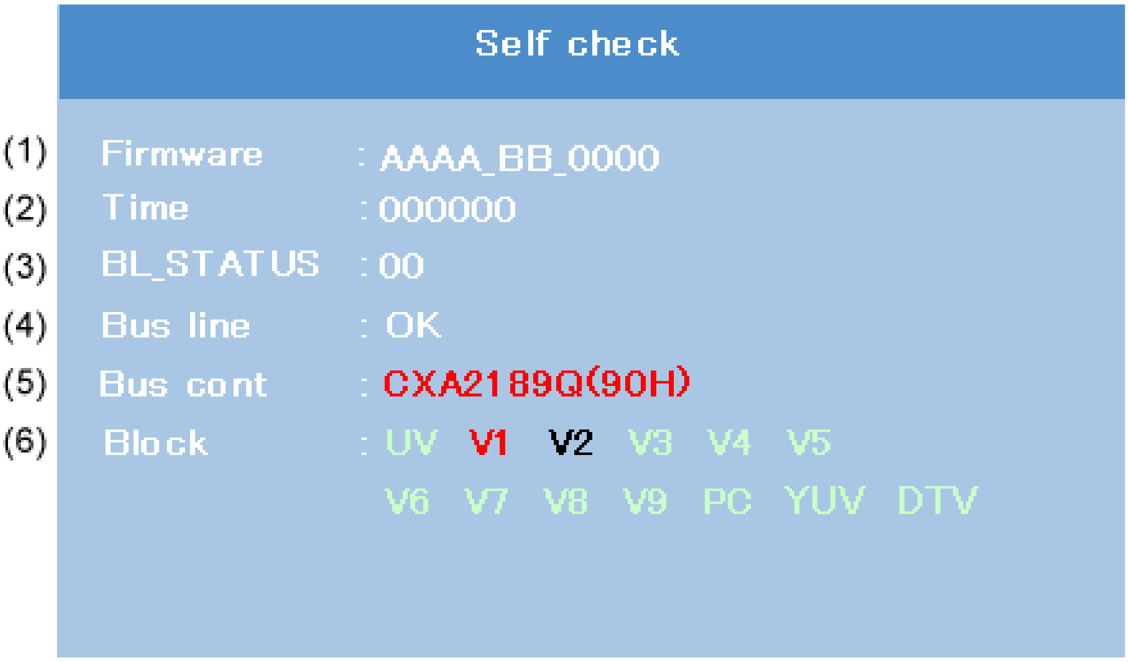
	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.

2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.



Self check

(1) Firmware : AAAA_BB_0000
(2) Time : 000000
(3) BL_STATUS : 00
(4) Bus line : OK
(5) Bus cont : CXA2189Q(90H)
(6) Block : UV V1 V2 V3 V4 V5
V6 V7 V8 V9 PC YUV DTV

(1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) BL_STATUS :

Counter for saving BackLight on error.

This value is counted till 99 (Decimal).

(4) Bus line : -- "OK" is normal

SCL-GND (Red indication) : SCL-GND short circuit

SDA-GND (Red indication) : SDA-GND short circuit

SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.

NG is abnormal (Red indication).

When the abnormal status is detected, type name of semiconductor is indicated in red colour.

(6) Block

UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

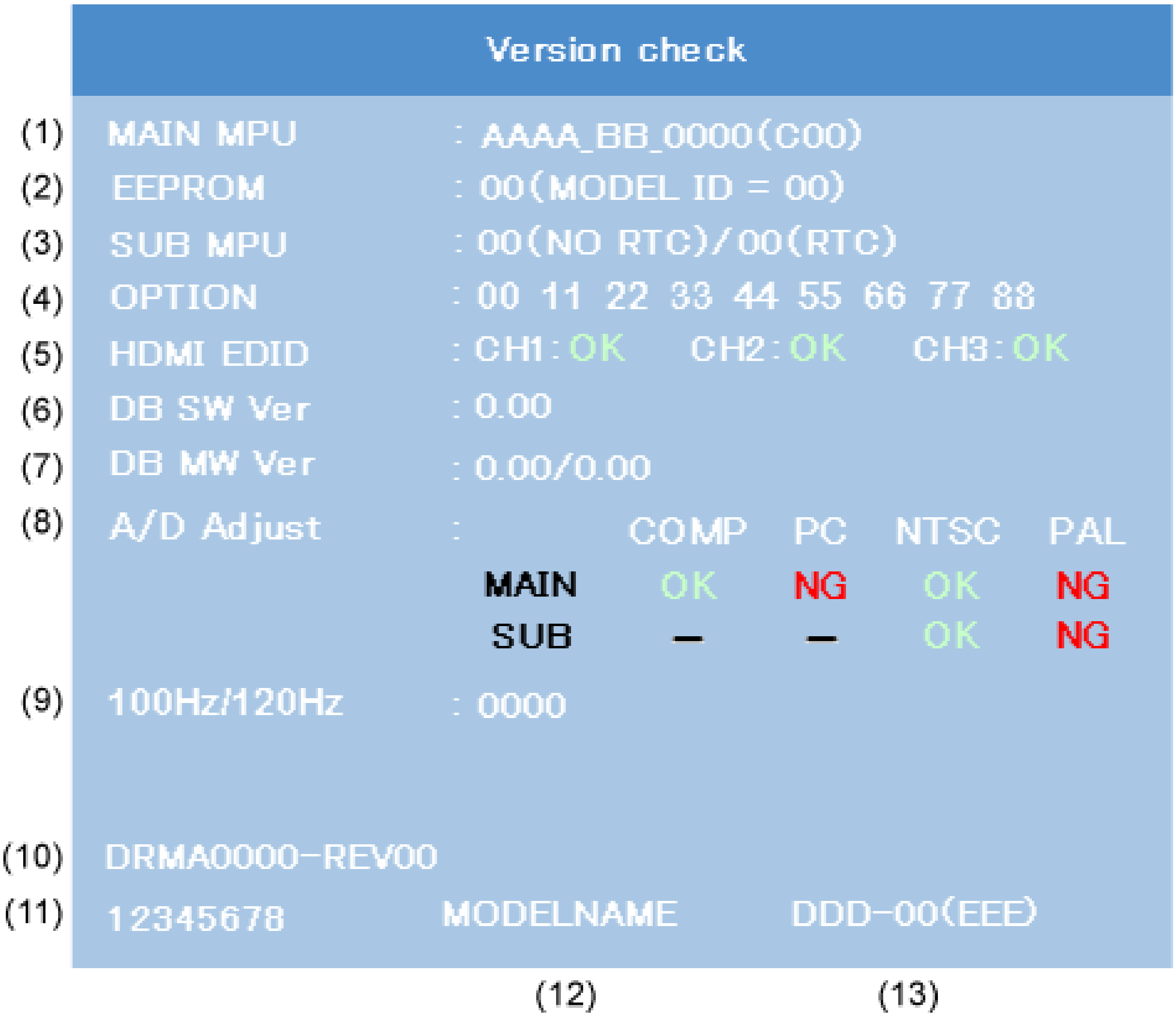
UV	RF
V1	➲1 (SCART (FULL))
V2	➲2 (SCART (FULL))
V3	➲3 (Component/Composite/S)
V4	HDMI1
V5	HDMI2
V6	HDMI3
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	DTV (Digital Only)

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode. The version of main MPU will be checked.

2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.


Version check

MAIN MPU : AAAA_BB_0000(C00)

EEPROM : 00(MODEL ID = 00)

SUB MPU : 00(NO RTC)/00(RTC)

OPTION : 00 11 22 33 44 55 66 77 88

HDMI EDID : CH1:OK CH2:OK CH3:OK

DB SW Ver : 0.00

DB MW Ver : 0.00/0.00

A/D Adjust :

	COMP	PC	NTSC	PAL
MAIN	OK	NG	OK	NG
SUB	–	–	OK	NG

100Hz/120Hz : 0000

DRMA0000-REV00

12345678 MODELNAME DDD-00(EEE)

(1) MAIN MPU :

Version information of microprocessor

Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.
Left side means QF01 (for AV-LINK) micon software version.
Right side means QA01 (for CEC) micon software version. (Only CEC model)

(5) HDMI EDID :

EDID data check item. Display channel numbers depend on HDMI input numbers.
OK : EDID data is enable.
NG : EDID data is disable.

(6) SW Ver

Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver

Left side is Application and UI version information of DB software. (Only digital model.)
Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.
--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.
--SUB : It's enable only in double Window model. A/D adjustment status of sub picture.
--COMP : Component input
--PC : PC input
--NTSC : NTSC (60 Hz) SD signal (composite input).
--PAL : PAL (50 Hz) SD signal (composite input).
--OK : A/D adjustment set correctly.
--NG : A/D adjustment set incorrect.
-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.

(10) Memory Data Version

Version information of EEPROM.
DRMA**** means model number of EEPROM.
REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

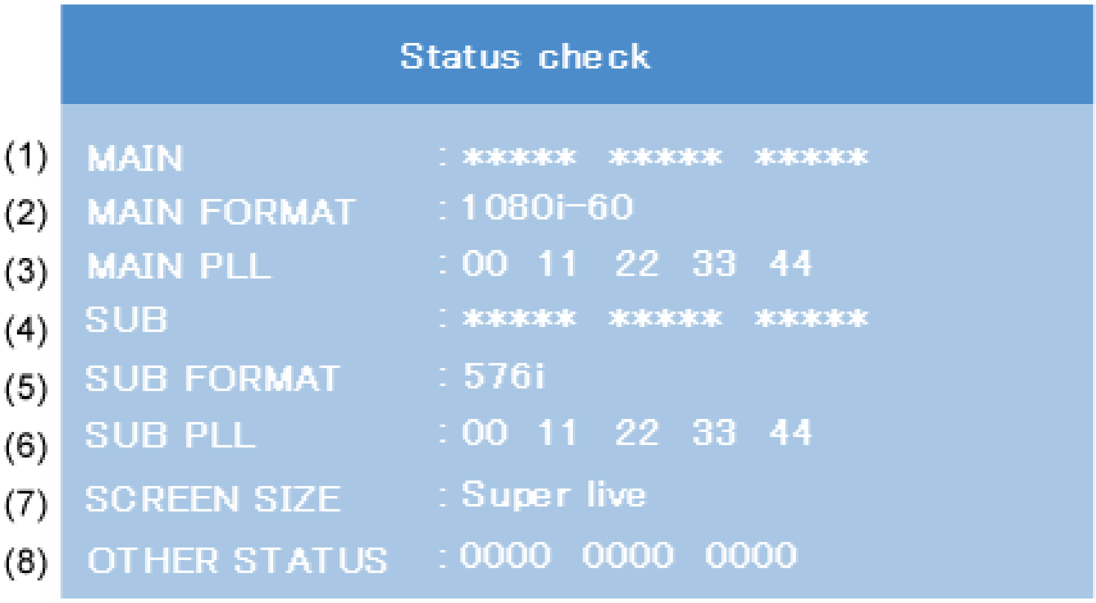
The following Panel Vender (DDD) and screen size (00) and resolution (EEE) are displayed.
Example : AUO-32 (1080p) indicates that Vender is AUO and Screen Size is 32 inch and Full HD panel.

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode. The status of this model will be checked.

2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.



```
Status check

(1) MAIN            : *****  *****  *****
(2) MAIN FORMAT     : 1080i-60
(3) MAIN PLL        : 00  11  22  33  44
(4) SUB             : *****  *****  *****
(5) SUB FORMAT      : 576i
(6) SUB PLL         : 00  11  22  33  44
(7) SCREEN SIZE     : Super live
(8) OTHER STATUS    : 0000  0000  0000
```

(1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video and PC format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

(4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

(5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ◢+ to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.
To move the cursor in the adjustment, press ◢+ or ◢-.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	- (no use)	-	-
D6 (bit6)	- (no use)	-	-
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Supere User mode may possible to setting only)	Enable
D2 (bit2)	Disable SET UP MENU except language. (tuning SETUP MENU)	Disable (Display the language only)	Enable
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 from to D7)	Off (Normal)

VOLUX

Set VOLUX as following.

1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)

2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OP6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OP7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0) Value above 100 is no effect.	

OP8

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)

D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indication

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

PANEL IDENTIFICATION

Panel Identification

If the several panels are alternatively used in the same model without amending the model name, the identification marking will be shown at the last digit of the set serial number on the specification label on the back cover.

In servicing, do not alter the panel because several setting and parts are different.

Marking	Panel Vendor	Marking	Panel Vendor	Marking	Panel Vendor
A	AUO	J		S	SHARP
B		K	SAMSUNG	T	
C	CMO	L	LPL	U	
D		M		V	
E		N		W	
F		P		X	
G		Q		Y	
H	IPS	R		Z	

With this alternative use, some of key parts may differ and their combinations are indicated with the suffix marking on the location number in the part list (Miscellaneous).

e.g.

Location No.	Part No.	Description
B001A	75007869	LCD Panel, 32" LPL
B001B	75007870	LCD Panel, 32" AUO
MZ01A	75006036	LDVS Cable
MZ01B	75007893	LDVS Cable

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals.
Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

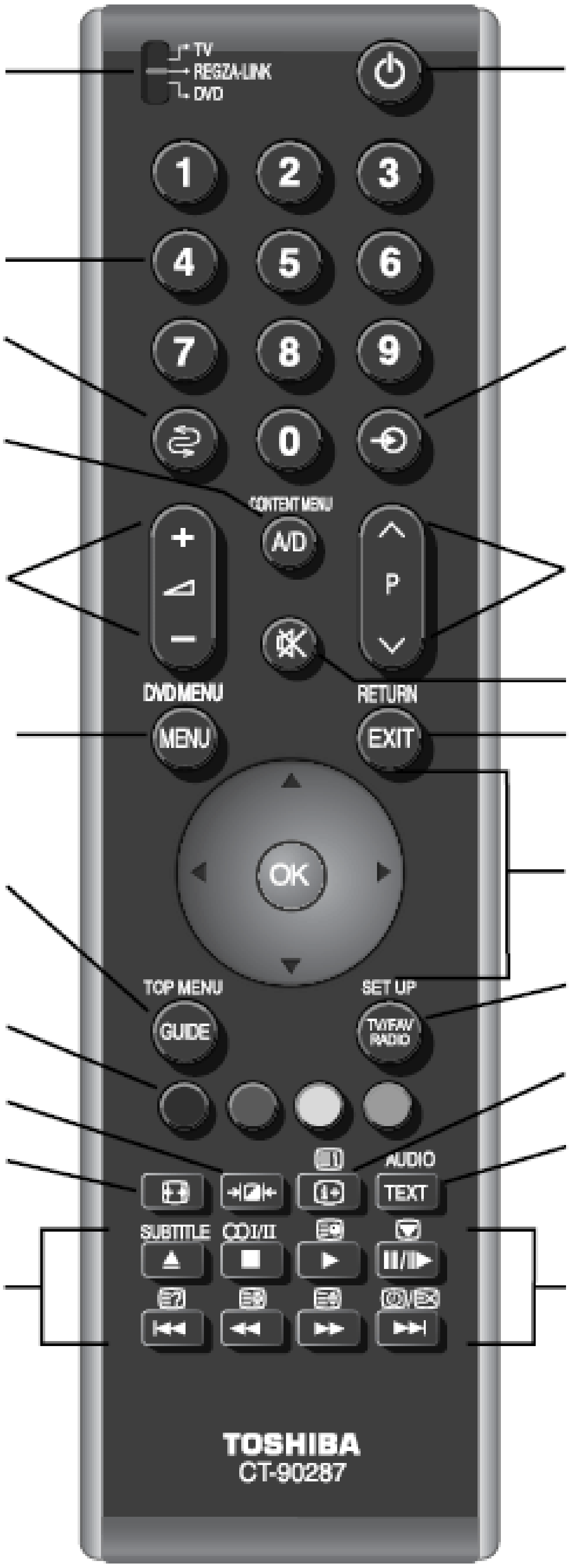
Resistors CF : Carbon film

OMF : Oxide Metal Film
PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor
EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

The Remote Control

Simple at-a-glance reference of your remote control.



To select device mode (T/R/D)*

* T=TV mode
R=REGZA-LINK mode
D=DVD mode

Number buttons (T/R/D)

To return to the previous programme (T)

To switch between **ATV** (**analogue** television) and **DTV** (**digital** television) (T)
To display Contents menu (R)

To alter the TV volume (T/R/D)

On-screen Menus (T)
DVD Menus (R/D)

To display the **digital** on-screen Programme Guide (T)
To access Top Menu (R/D)

Text and interactive service control buttons (T)
To work interactive service control on device (R)

Selectable picture preferences (T)

Widescreen viewing (T)

For On/Standby mode (T/R/D)

To select external input sources (T)
To select line input (R/D)

To change programme positions (T/R)
To change text pages (T)

To mute the TV sound (T/R/D)

To exit Menus (T)
To return to previous Menu (R/D)

When using menus the arrows move the cursor on the screen up, down, left or right. **OK** to confirm your selection (T/R/D)

To switch between TV, Radio and Favourite programmes when in **digital** mode (T)
To access Setup menu (R/D)

To display **digital** on-screen information (T/R/D)

To call up text services in **analogue** mode and interactive services in **digital** mode (T)

REGZA-LINK or DVD mode:
press II/I▶ to PAUSE/STEP
press ▶ to PLAY
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD
press ⏏ to EJECT
press ■ to STOP
press ⏮ to SKIP-REWIND
presss ⏭ to SKIP-FORWARD

TV mode:

▽	Still picture
◎I/II	Stereo/bilingual transmissions
SUBTITLE	Digital Subtitles or Analogue TEXT Subtitle pages if available
◷/≡	Analogue time display

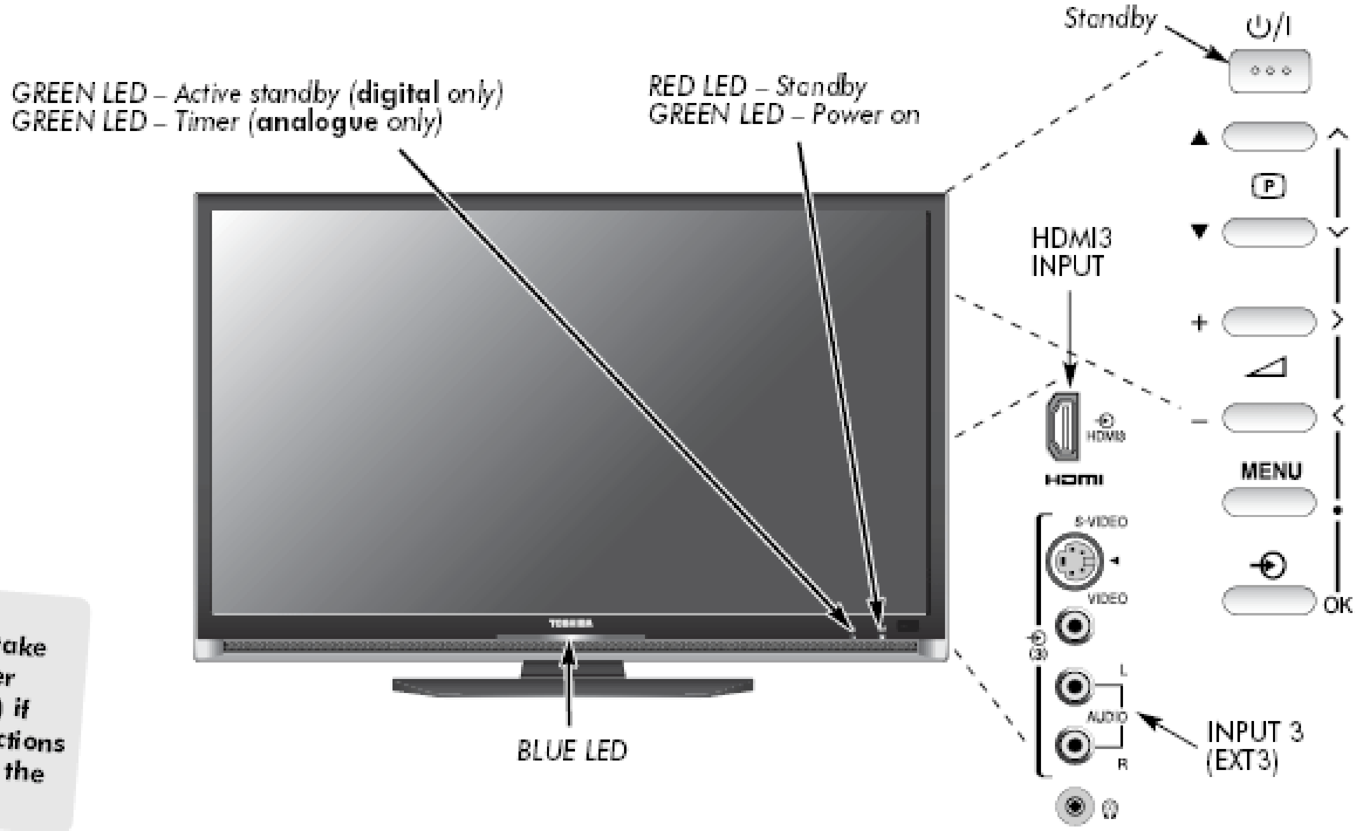
When using the Programme Guide:

⏮	– 24 hours
⏭	+ 24 hours
◀◀	– 1 page
▶▶	+ 1 page

FUNCTION AND OPERATION

Controls and Input Connections

A wide variety of external equipment can be connected to the input sockets on the side of the television.
Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


GREEN LED – Active standby (**digital** only)
GREEN LED – Timer (**analogue** only)
RED LED – Standby
GREEN LED – Power on
Standby
⏻/I
P
+
–
MENU
OK
HDMI3
INPUT
HDMI3
HDMI
S-VIDEO
VIDEO
L
AUDIO
R
3
INPUT 3
(EXT3)
BLUE LED
TOSHIBA

Input 3 (side) will take priority over EXT3 (back) if both connections are used at the same time.

Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (see *'Software Upgrade' section*) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of six topics. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

To use the options press the ▲ and ▼ button on the remote control to move up and down through them and **OK**, ◀ or ▶ to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Controls and Connections

To alter the volume press – ⊿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ‹, ›, ˅ or ˄ to control the sound and picture options.

Press **MENU** twice to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⇥ until the display shows **EXT3**. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

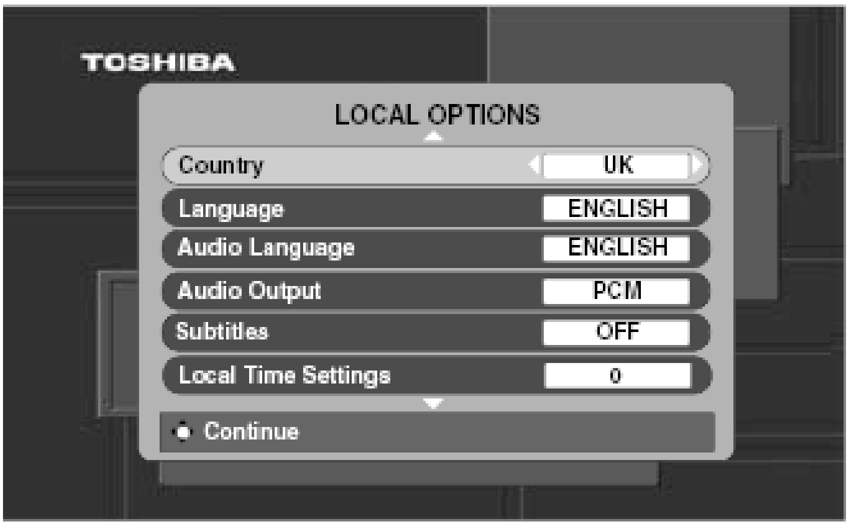
Please note: Inserting the headphone plug will mute the sound from all speakers.

Tuning Digital Television for the First Time

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected.

To set up the television use the buttons on the remote control.

1. Press the ⏻ button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.



LOCAL OPTIONS

Country ◀ UK ▶
Language ENGLISH
Audio Language ENGLISH
Audio Output PCM
Subtitles OFF
Local Time Settings 0
● Continue

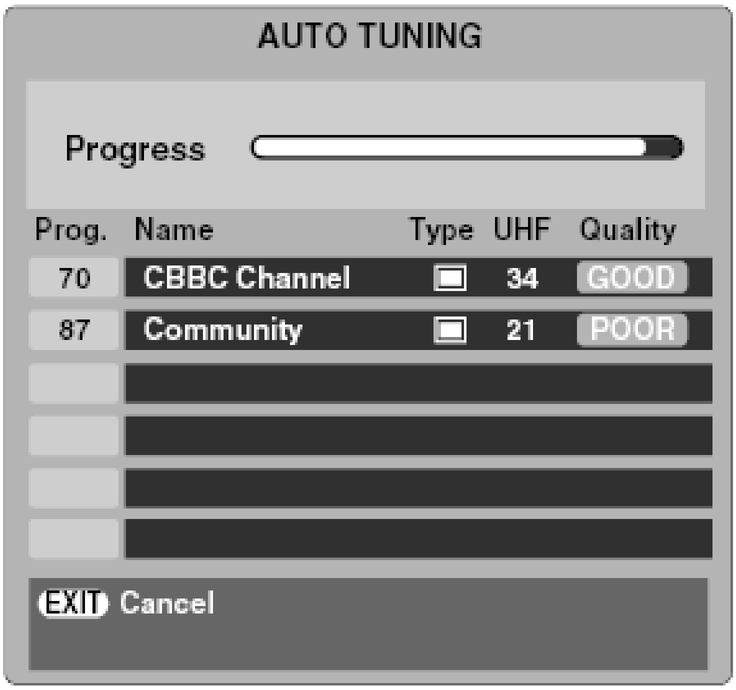
2. Press ▼ to highlight **Country** and ◀ or ▶ to select. The television will now tune the stations for your country.

3. Using ▼ highlight **Language**, then ◀ or ▶ to select.

4. Press **OK** to start tuning.

   The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

   You must allow the television to complete the search.



AUTO TUNING

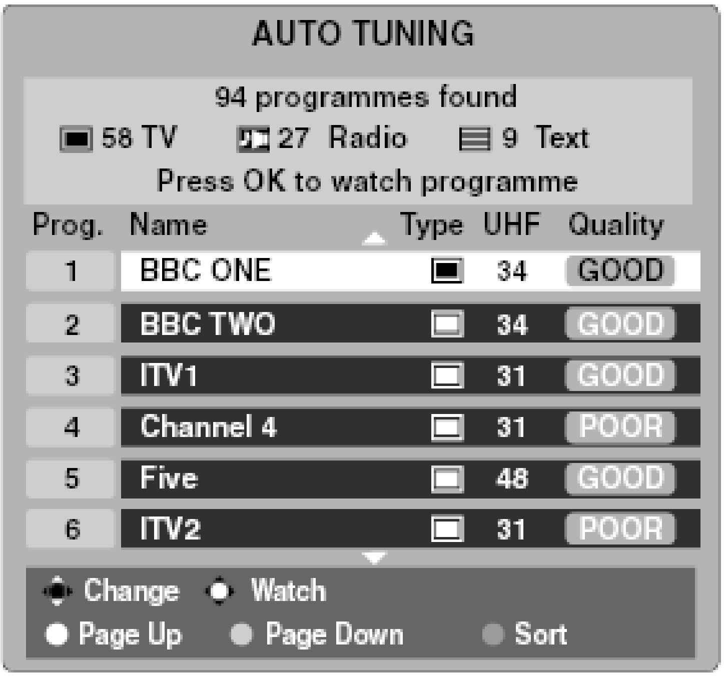
Progress

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▣	34	GOOD
87	Community	▣	21	POOR

EXIT Cancel

When the search is complete the television will automatically select programme one.

The **AUTO TUNING** screen will display the total number of services found.



AUTO TUNING

94 programmes found

▣ 58 TV   27 Radio   ≡ 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	▣	34	GOOD
3	ITV1	▣	31	GOOD
4	Channel 4	▣	31	POOR
5	Five	▣	48	GOOD
6	ITV2	▣	31	POOR

Change   Watch

● Page Up   ● Page Down   ● Sort

5 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by up to 2 hours using **Local Time Settings**.

Digital Auto Tuning

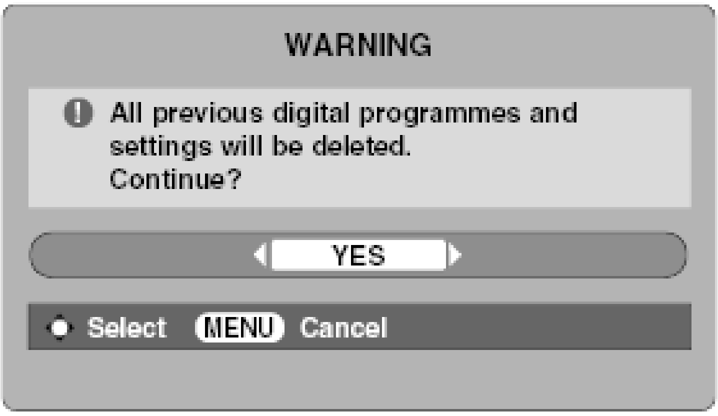
Note: As new services are broadcast it will be necessary to re-tune the television in order to view them.

Auto Tuning

Auto tuning *will completely re-tune the television and can be used to up date the channel list.* ***It is recommended that Auto tuning is run periodically to ensure that all new services are added.*** *All current programmes and settings, i.e. favourites and locked programmes, will be lost.*

1. Press **MENU**, the **SETUP MENU** will appear. Use ▼ to highlight **Auto tuning**. Press **OK**.

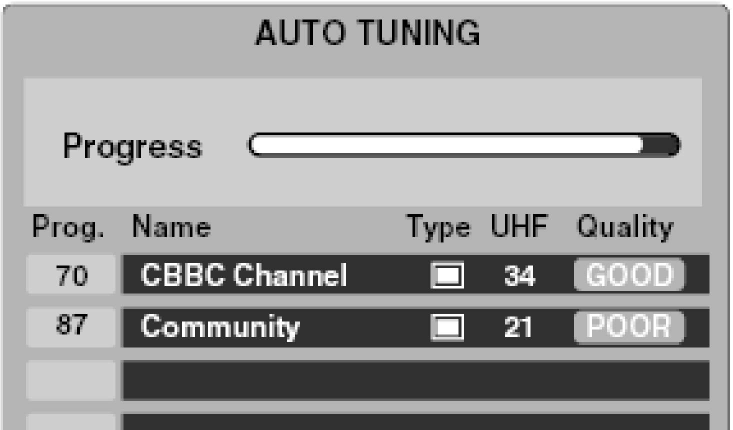
2. A screen will appear warning that previous digital programmes and settings will be deleted. Press **OK** to continue with the **Auto tuning**.



WARNING

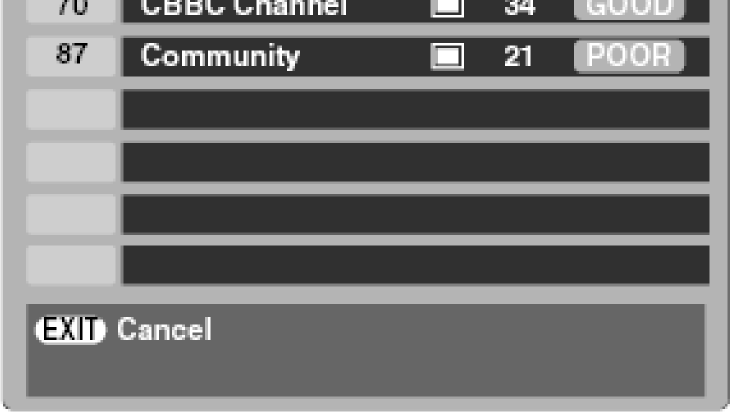
All previous digital programmes and settings will be deleted.
Continue?

The television will start to search for all available stations.



AUTO TUNING

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▣	34	GOOD
87	Community	▣	21	POOR

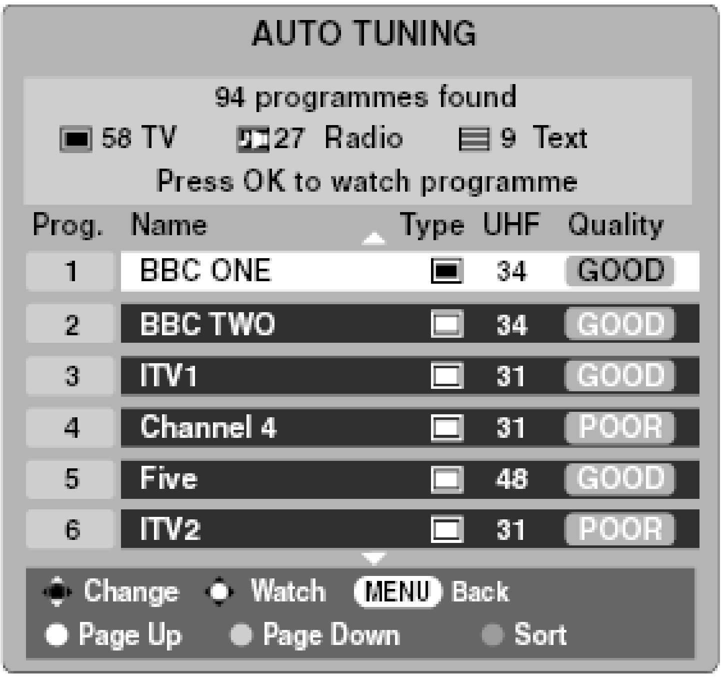


70	CBBC Channel	▣	34	GOOD
87	Community	▣	21	POOR

EXIT Cancel

You must allow the television to complete the search.

When the search is complete the **Auto tuning** screen will display the total number of services found.



AUTO TUNING

94 programmes found

▣ 58 TV ▣ 27 Radio ▤ 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	▣	34	GOOD
3	ITV1	▣	31	GOOD
4	Channel 4	▣	31	POOR
5	Five	▣	48	GOOD
6	ITV2	▣	31	POOR

3 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

Analogue Switch-Off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

This ‘switch-off’ will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption (*see the* 'Auto tuning' *section*).

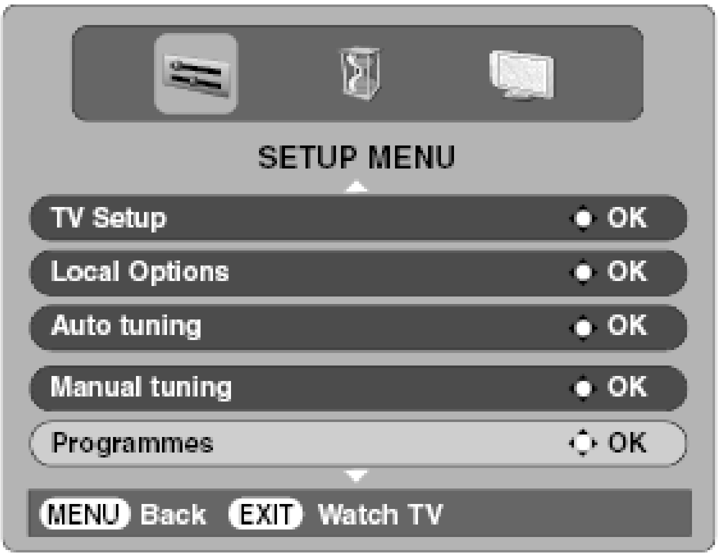
Digital Programme Sorting, Manual Tuning

Note: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

Programme Sorting

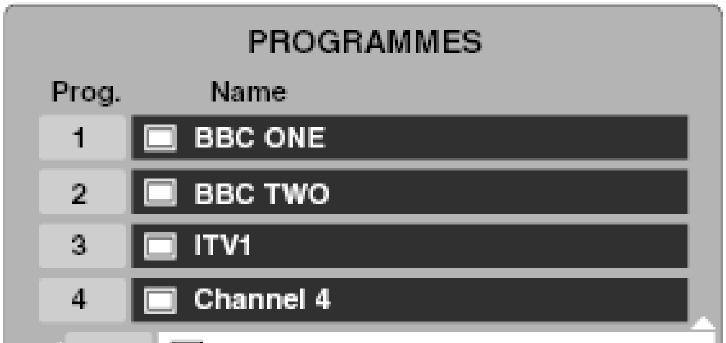
1 The station order may be changed to suit personal preference. Press **MENU**, the **SETUP MENU** will appear on screen.

2 Use ▼ to move down through the list and highlight **Programmes**. Press **OK**.

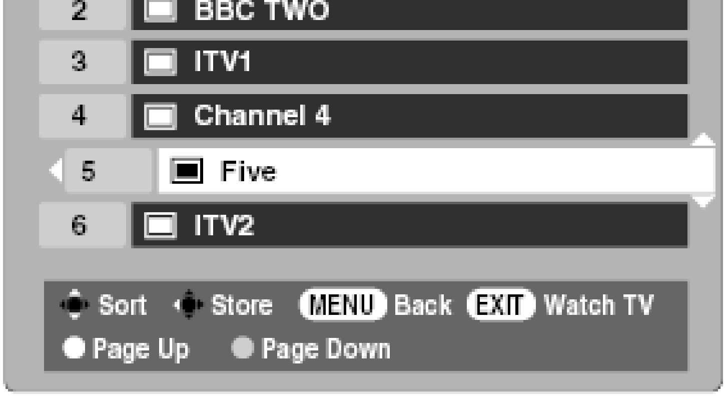

SETUP MENU
TV Setup OK
Local Options OK
Auto tuning OK
Manual tuning OK
Programmes OK
MENU Back
EXIT Watch TV

3 With the list of stations now showing use ▼ or ▲ to highlight the station you want to move and press ▶.

The selected station will be moved to the right of the screen.


PROGRAMMES

Prog.	Name
1	BBC ONE
2	BBC TWO
3	ITV1
4	Channel 4


2 BBC TWO
3 ITV1
4 Channel 4
5 Five
6 ITV2
Sort
Store
MENU Back
EXIT Watch TV
Page Up
Page Down

4. Use ▼ or ▲ to move through the list to your preferred position. As you do so the other stations will move to make room.

5. Press ◀ to store your move. Repeat as necessary, then press **EXIT**.

Manual Tuning

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **Manual tuning** from the **SETUP MENU** and press **OK**.

2. Enter the multiplex number using the number buttons and then press **OK**. The television will automatically search for that multiplex.

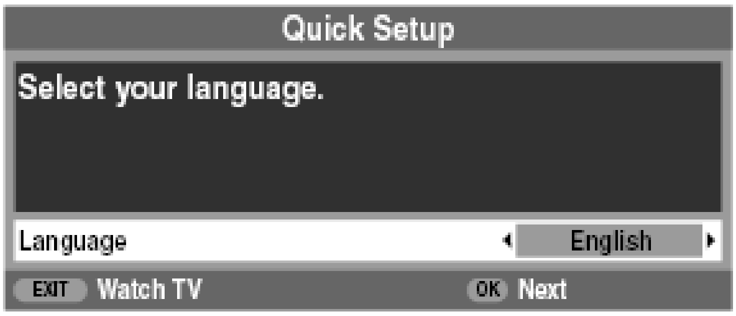
   When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.

3. Repeat as necessary. Press **EXIT** to finish.

Tuning Analogue Mode for the First Time

The **Quick Setup** feature will tune all **analogue** channels currently available in the area. To put the television into **ATV** mode press the **A/D** button.

1. Select **ATV** mode. The **Quick Setup** screen will appear.

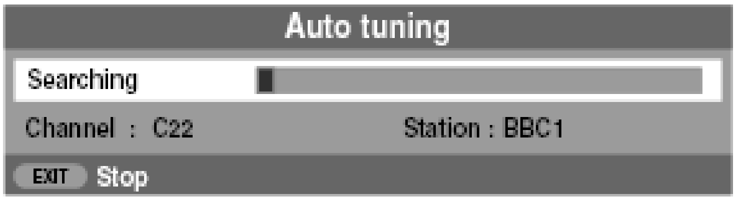


Quick Setup

Select your language.

Language ◂ English ▸

2. Using ◀ or ▶ select your **language**, then press **OK**.
3. Then press ◀ or ▶ to select your **country**.
4. To start **Auto tuning** press **OK**.



Auto tuning

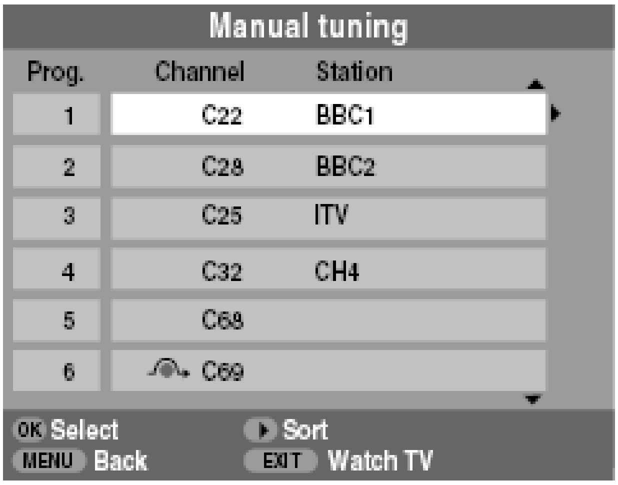
Searching

Channel : C22 Station : BBC1

5. The search will begin for all available stations. The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1 and the **Manual tuning** screen will appear.


Manual tuning
OK Select
Sort
MENU Back
EXIT Watch TV

Prog.	Channel	Station
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C68	
6	C69	

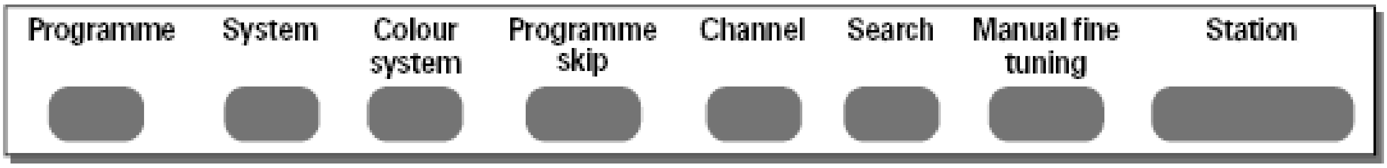
6 Use ▼ or ▲ to move through the list to select a programme then press **EXIT** to view.

The station order may be changed using the **Manual tuning** screen (*see the* **analogue** *'Sorting programme positions' section*).

Analogue Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

Use ◀ and ▶ to move across the screen and select any of these Manual Tune options.



Programme : **The number to be pressed on the remote control.**

System : **Specific to certain areas.**

Colour system : **Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.**

Programme skip : 👁 **means nothing has been stored or the facility to skip the channel is ON.**

Channel : **The channel number on which a station is being broadcast.**

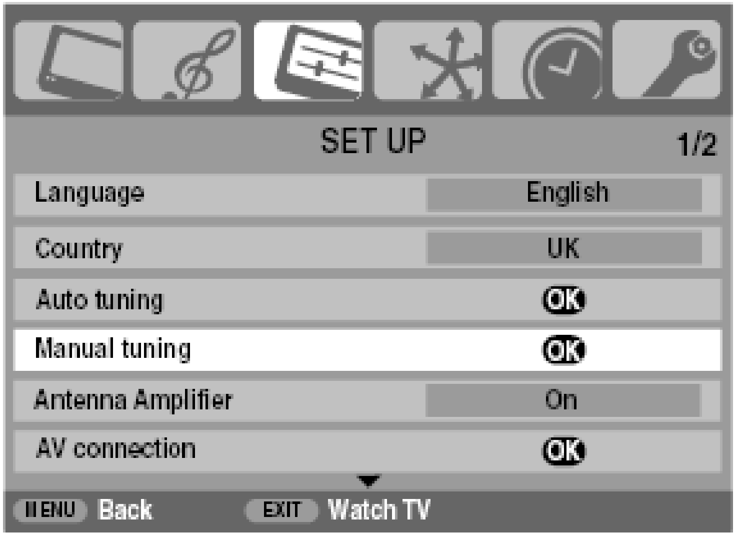
Search : **Search up and down for a signal.**

Manual fine tuning : **Only used if interference/weak signal is experienced.**

Station : **Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.**

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1. Press **MENU** and using ◀ or ▶ select the **SET UP** menu, with ▼ highlight **Manual tuning**, press **OK** to select.

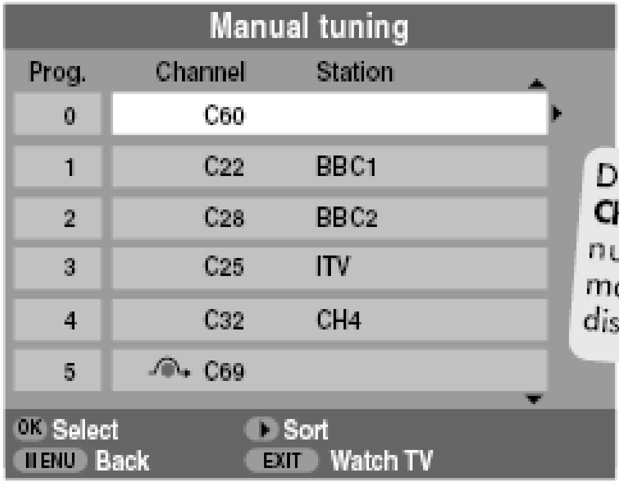


SET UP 1/2

Language	English
Country	UK
Auto tuning	OK
Manual tuning	OK
Antenna Amplifier	On
AV connection	OK

MENU Back
EXIT Watch TV

2. Use ▲ or ▼ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



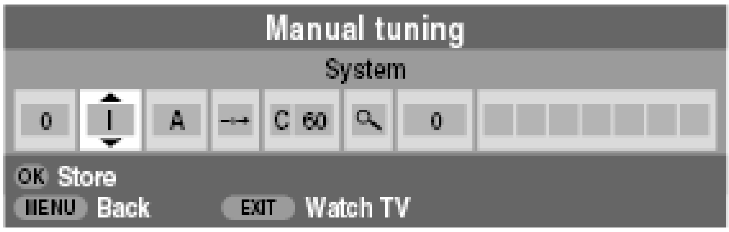
Manual tuning

Prog.	Channel	Station
0	C60	
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C69	

OK Select
▶ Sort
MENU Back
EXIT Watch TV

Different **Channel** numbers may be displayed

3. Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.



Manual tuning

System

0 | I | A | → | C 60 | 🔍 | 0

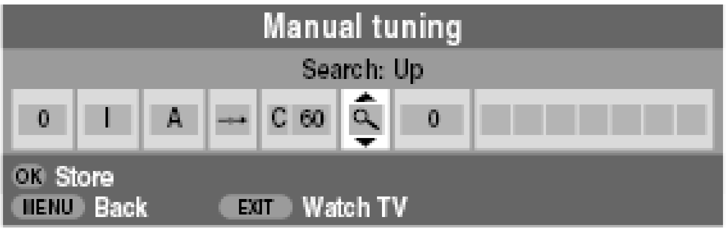
OK Store

MENU Back EXIT Watch TV

4. Press ▶ to select **System** and use ▲ or ▼ to change if required.

5. Then press ▶ to select **Search**.

6. Press ▲ or ▼ to begin the search. The search symbol will flash.



Manual tuning

Search: Up

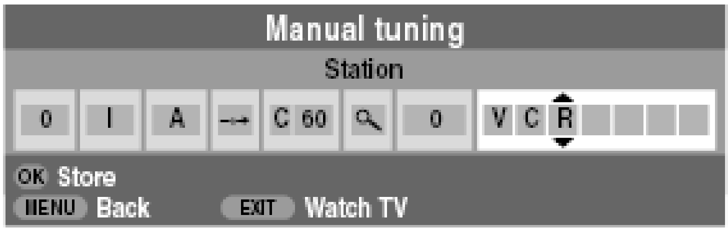
0 | I | A | → | C 60 | 🔍 | 0

OK Store

MENU Back EXIT Watch TV

7. Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.

8 When your media recorder signal is found, press ▶ to move along to **Station**. With ▲, ▼, ◀ and ▶ put in the required characters, e.g. **VCR**.


Manual tuning
Station
0
I
A
C 60
0
V C R
OK Store
MENU Back
EXIT Watch TV

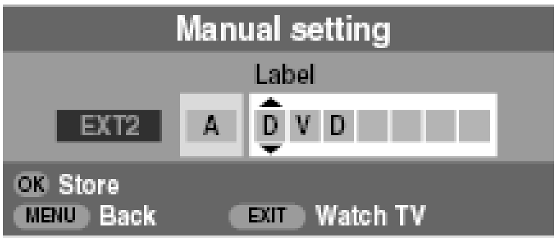
9 Press **OK** to store.

10 Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished.

12 To name external equipment, *e.g.* DVD on EXT2, press ⎆ to select ⎆2, then select **Manual setting** from the **SET UP** menu.

13 Press ▶ to select **Label** then using ▲, ▼, ◀ and ▶ put in the required characters. Press **OK**.


Manual setting
Label
EXT2
A
D V D
OK Store
MENU Back
EXIT Watch TV

PLEASE NOTE This television has direct channel entry if the channel numbers are known.
Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to store.

SPECIFICATION

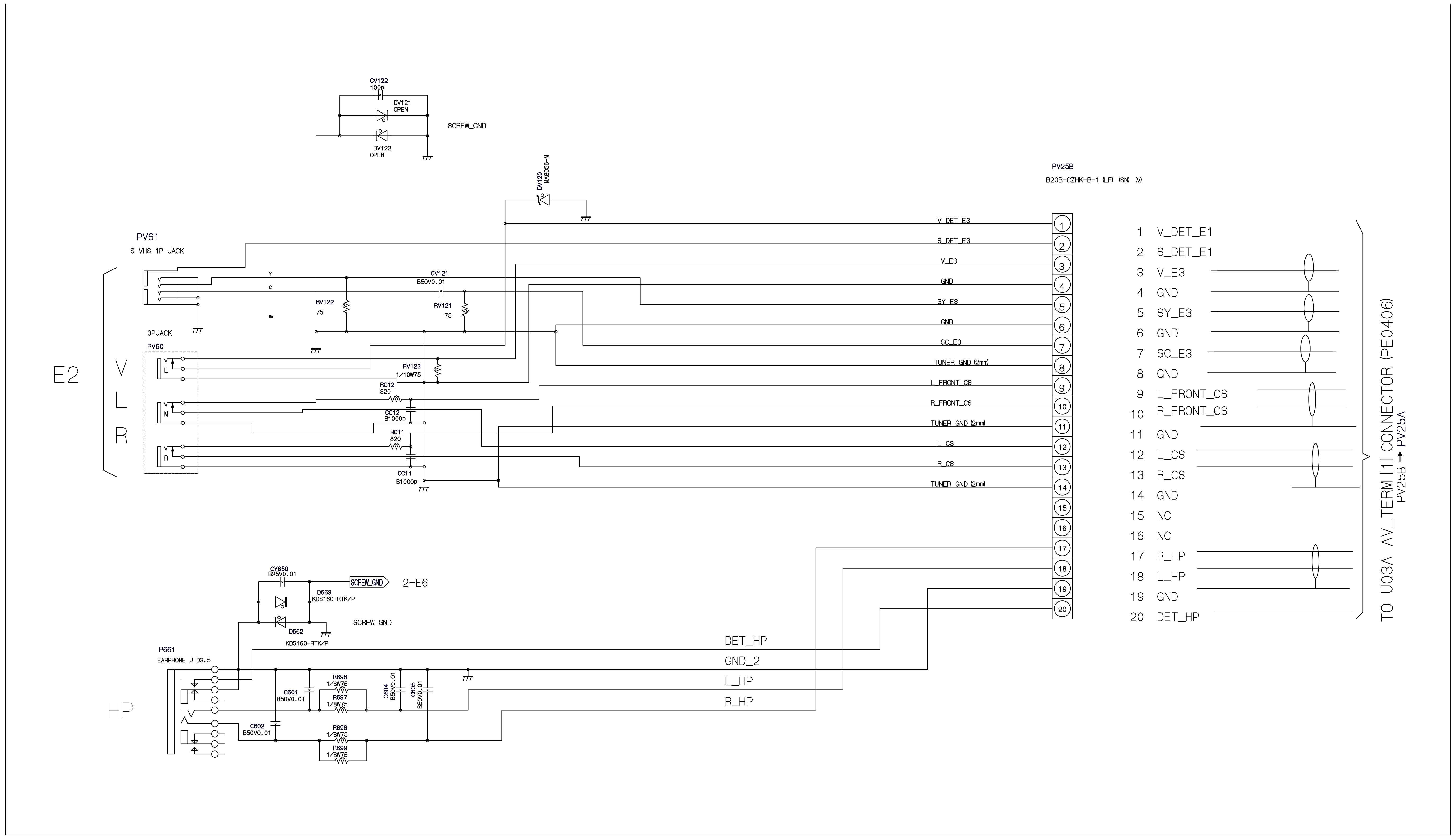
DVB-T Broadcast systems/channels		**Broadcast systems/channels**	
UK	UHF 21-68	PAL-I	UHF UK21-UK69
France	VHF 05-10 (VHF 01-05) UHF 21-69	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
Germany	VHF 05-12 UHF 21-69	SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
Switzerland	VHF 05-12 UHF 21-69	SECAM-D/K	UHF R21-R69 VHF R1-R12
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69		
Spain	UHF 21-69		

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

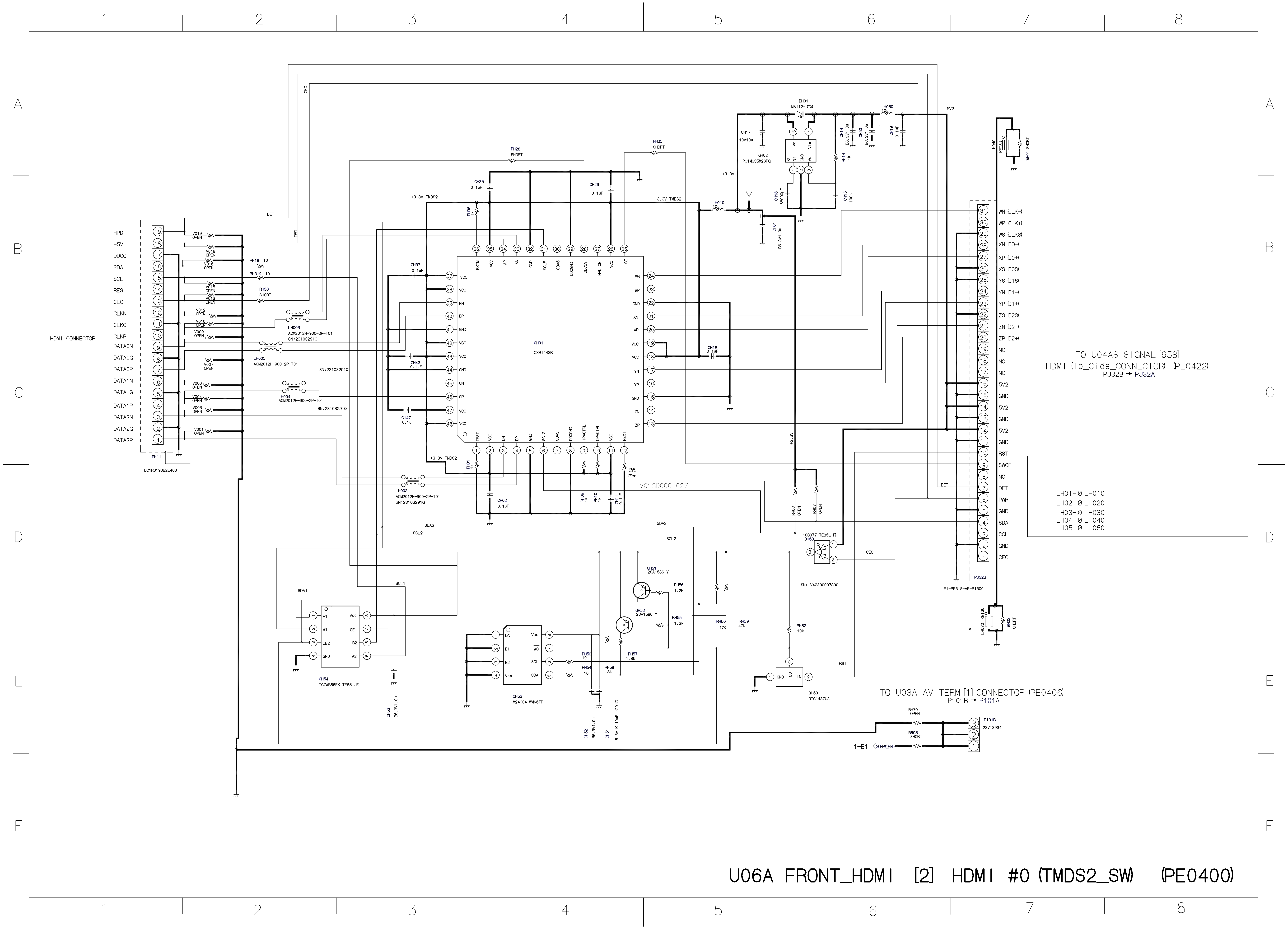
EXT1	Input/Output	21-pin SCART	RGB, A/V Selectable output
EXT2	Input/Output	21-pin SCART	RGB, A/V, S-video Selectable output
EXT3	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R A/V
EXT3	Input (Side)	Phono jack Phono jacks	Video, S-video Audio L + R
HDMI 1/2	Input	HDMI™ (1080p, LIP SYNC, Deep Color, xvYCC*) *xvYCC: for ZF355D series only	
HDMI 3	Input (Side)	HDMI™ (1080p, LIP SYNC, Deep Color, xvYCC*) *xvYCC: for ZF355D series only	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1 Audio		Phono jacks	Audio L + R
Digital Audio Output (S/PDIF)		Optical	
Output to Active Super Woofer		Phono jack	
Fixed Audio Output		Phono jacks	Audio L + R

Stereo		Nicam 2 carrier system
Visible Screen Size (approx.)	Model	40 102cm 46 117cm
Display		16:9
Sound output (at 10% distortion)		Main 10W + 10W
Power consumption as specified in EN60107-1 : 1997	Model	40XF 243W 46XF 291W
Standby (approx.)	Model	40XF <1W 46XF <1W
Dimensions (approx.)	Model	40 63cm (H) 93cm (W) 30cm (D) 46 71cm (H) 107cm (W) 30cm (D) *(Height dimension includes foot stand)*
Weight (approx.)	Model	40XF 27.2kg 46XF 34.1kg
Headphone socket		3.5mm stereo
Accessories		Remote control 2 batteries (AAA, IEC R03 1.5V) Cleaning cloth (to clean the cabinet and control panel)

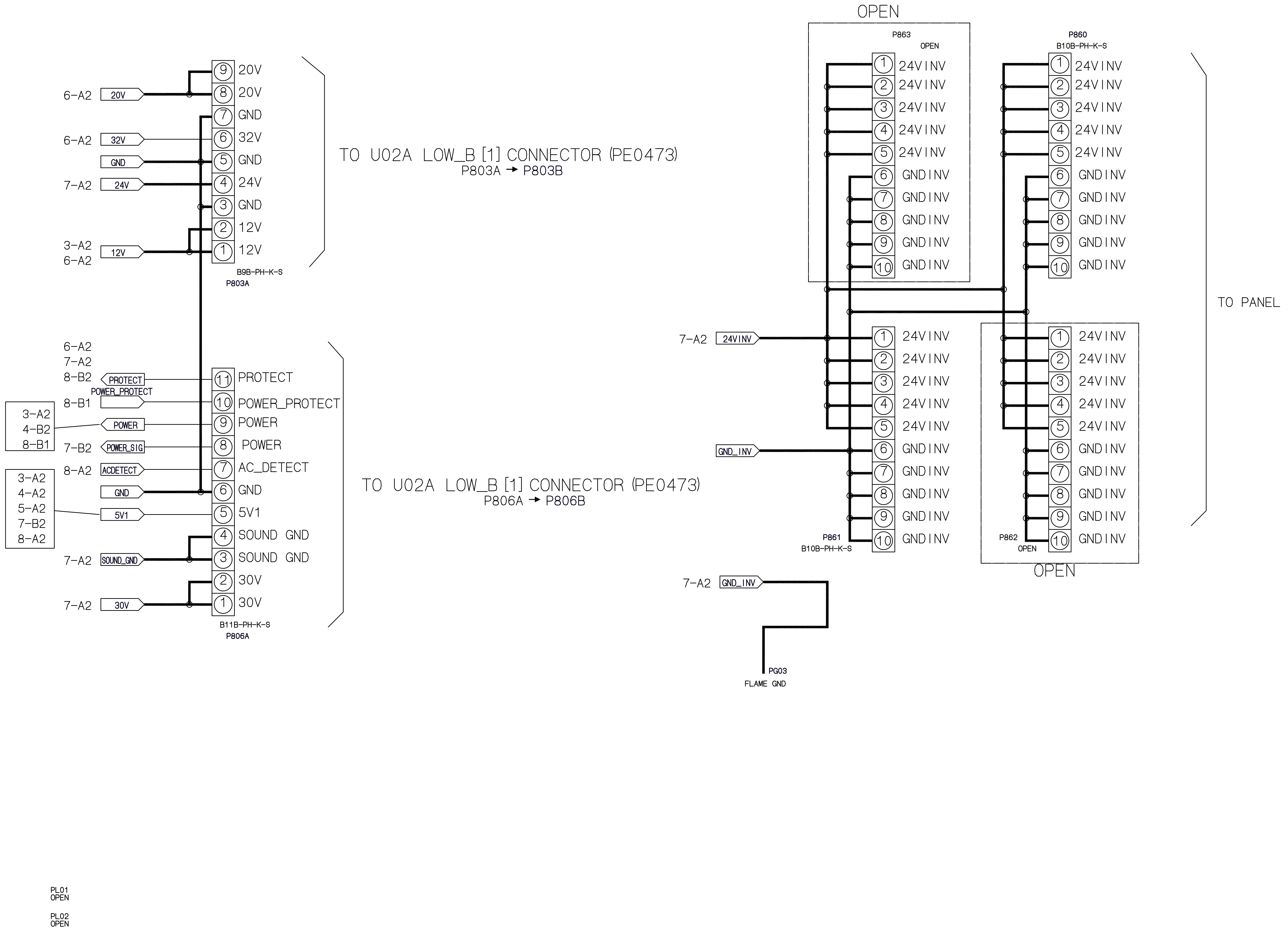

CV122
100p
DV121
OPEN
DV122
OPEN
SCREW_GND
DV120
MA8056-M
PV61
S VHS 1P JACK
Y
C
SW
CV121
B50V0.01
RV122
75
RV121
75
3PJACK
PV60
E2
V
L
R
L
M
R
RV123
1/10W75
RC12
820
CC12
B1000p
RC11
820
CC11
B1000p
PV25B
B20B-CZHK-B-1 (LF) (SN) (V)
V_DET_E3
S_DET_E3
V_E3
GND
SY_E3
GND
SC_E3
TUNER GND (2mm)
L_FRONT_CS
R_FRONT_CS
TUNER GND (2mm)
L_CS
R_CS
TUNER GND (2mm)
1 V_DET_E1
2 S_DET_E1
3 V_E3
4 GND
5 SY_E3
6 GND
7 SC_E3
8 GND
9 L_FRONT_CS
10 R_FRONT_CS
11 GND
12 L_CS
13 R_CS
14 GND
15 NC
16 NC
17 R_HP
18 L_HP
19 GND
20 DET_HP
TO U03A AV_TERM [1] CONNECTOR (PE0406)
PV25B → PV25A
CY650
B25V0.01
SCREW_GND
2-E6
D663
KDS160-RTK/P
D662
KDS160-RTK/P
SCREW_GND
P661
EARPHONE J D3.5
HP
DET_HP
GND_2
L_HP
R_HP
C601
B50V0.01
C602
B50V0.01
R696
1/8W75
R697
1/8W75
R698
1/8W75
R699
1/8W75
C604
B50V0.01
C605
B50V0.01

PL31
WIRE CLIP

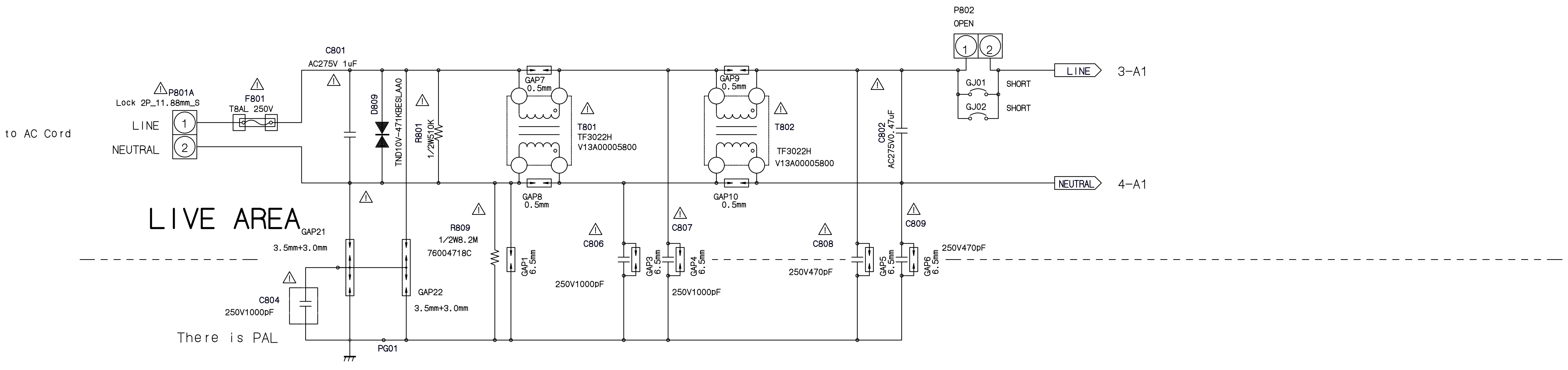
U06A FRONT_HDMI [1] FRONT-AV (PE0400)


HDMI CONNECTOR
HPD
+5V
DDCG
SDA
SCL
RES
CEC
CLKN
CLKG
CLKP
DATA0N
DATA0G
DATA0P
DATA1N
DATA1G
DATA1P
DATA2N
DATA2G
DATA2P
PH11
DC1R019JB2E400
QH01
CXB1443R
+3.3V-TMDS2-
LH006
ACM2012H-900-2P-T01
SN:231032910
LH005
ACM2012H-900-2P-T01
LH004
ACM2012H-900-2P-T01
LH003
ACM2012H-900-2P-T01
SN:231032910
V01GD0001027
QH02
PQ1M335M2SPQ
DH01
MA112-(TX)
LH050
LH010
+3.3V
5V2
SDA2
SCL2
SDA1
SCL1
QH54
TC7W666FK (TE85L,F)
QH53
M24C04-WMN6TP
QH51
2SA1586-Y
QH52
2SA1586-Y
QH50
DTC143ZUA
DH50
1SS377 (TE85L,F)
SN:V42A00007800
RST
CEC
DET
PWR
WN (CLK-)
WP (CLK+)
WS (CLKS)
XN (D0-)
XP (D0+)
XS (D0S)
YS (D1S)
YN (D1-)
YP (D1+)
ZS (D2S)
ZN (D2-)
ZP (D2+)
NC
5V2
GND
SWCE
SDA
SCL
PJ32B
FI-RE31S-VF-R1300
TO U04AS SIGNAL [658]
HDMI (To_Side_CONNECTOR) (PE0422)
PJ32B → PJ32A
LH01-Ø LH010
LH02-Ø LH020
LH03-Ø LH030
LH04-Ø LH040
LH05-Ø LH050
TO U03A AV_TERM [1] CONNECTOR (PE0406)
P101B → P101A
P101B
23713934
1-B1
SCREW_GND
RH70 OPEN
R695 SHORT
A
B
C
D
E
F
1
2
3
4
5
6
7
8

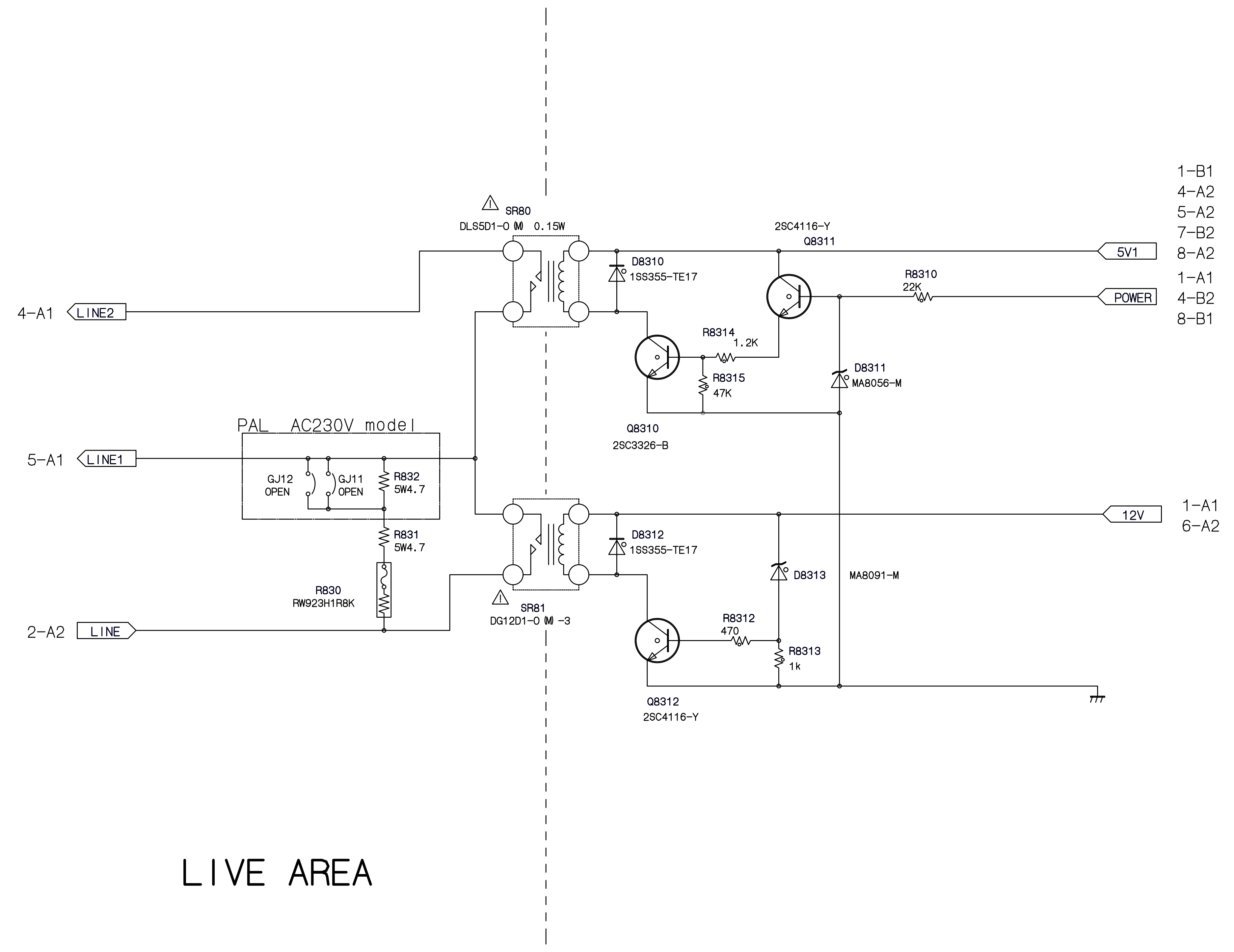
U06A FRONT_HDMI [2] HDMI #0 (TMDS2_SW) (PE0400)


6-A2
20V
9 20V
8 20V
7 GND
6-A2
32V
6 32V
GND
5 GND
7-A2
24V
4 24V
3 GND
2 12V
3-A2
6-A2
12V
1 12V
B9B-PH-K-S
P803A
TO U02A LOW_B [1] CONNECTOR (PE0473)
P803A → P803B
6-A2
7-A2
8-B2
PROTECT
11 PROTECT
POWER_PROTECT
8-B1
10 POWER_PROTECT
3-A2
4-B2
8-B1
POWER
9 POWER
7-B2
POWER_SIG
8 POWER
8-A2
ACDETECT
7 AC_DETECT
GND
6 GND
3-A2
4-A2
5-A2
7-B2
8-A2
5V1
5 5V1
4 SOUND GND
7-A2
SOUND_GND
3 SOUND GND
2 30V
7-A2
30V
1 30V
B11B-PH-K-S
P806A
TO U02A LOW_B [1] CONNECTOR (PE0473)
P806A → P806B
OPEN
P863
OPEN
1 24VINV
2 24VINV
3 24VINV
4 24VINV
5 24VINV
6 GNDINV
7 GNDINV
8 GNDINV
9 GNDINV
10 GNDINV
P860
B10B-PH-K-S
1 24VINV
2 24VINV
3 24VINV
4 24VINV
5 24VINV
6 GNDINV
7 GNDINV
8 GNDINV
9 GNDINV
10 GNDINV
TO PANEL
7-A2
24VINV
1 24VINV
2 24VINV
3 24VINV
4 24VINV
5 24VINV
GND_INV
6 GNDINV
7 GNDINV
8 GNDINV
9 GNDINV
10 GNDINV
P861
B10B-PH-K-S
1 24VINV
2 24VINV
3 24VINV
4 24VINV
5 24VINV
6 GNDINV
7 GNDINV
8 GNDINV
9 GNDINV
10 GNDINV
P862
OPEN
OPEN
7-A2
GND_INV
PG03
FLAME GND
PL01
OPEN
PL02
OPEN

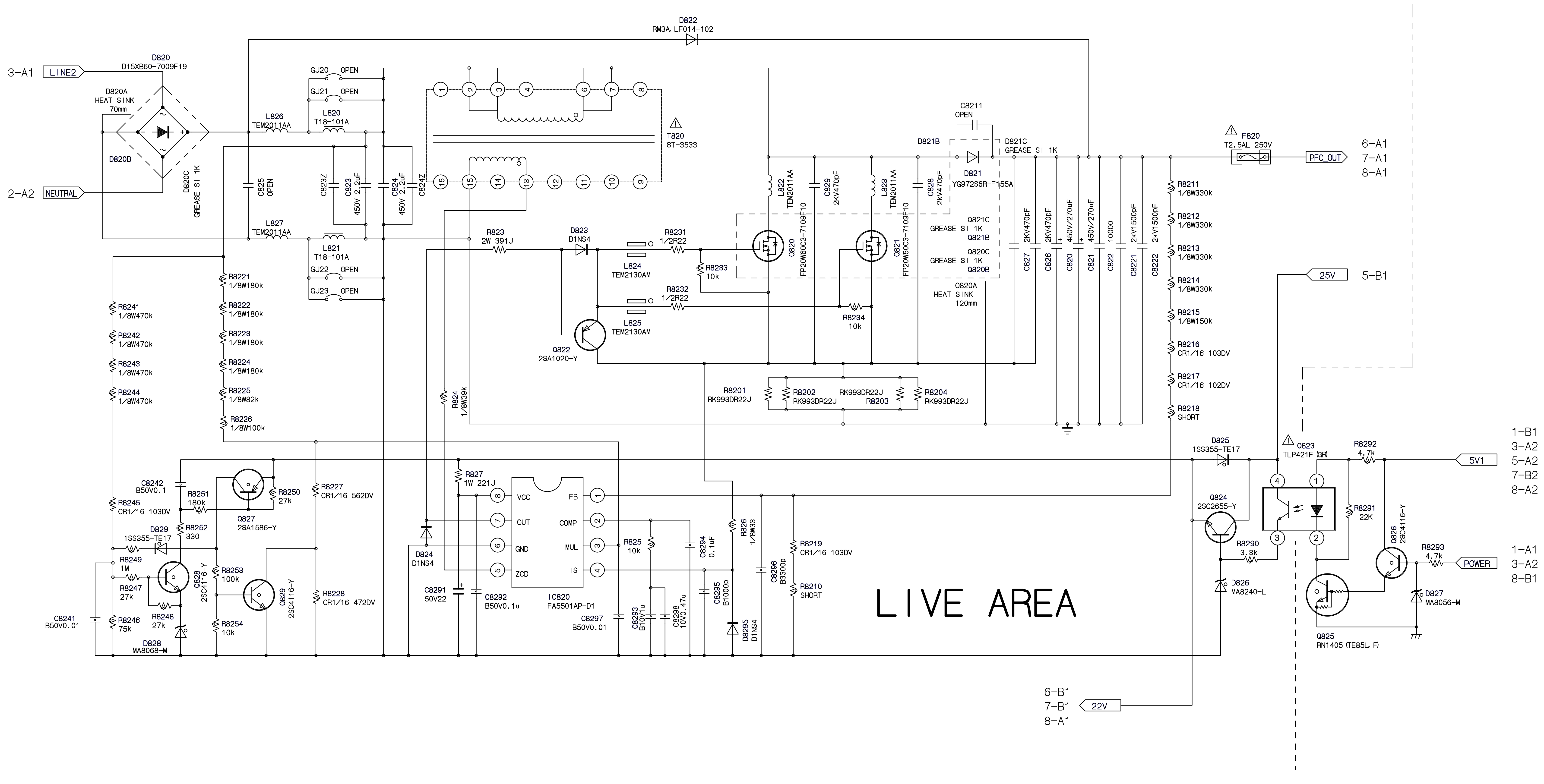
U01A POWER [1] CONNECTOR (PE0401)


P802
OPEN
1
2
C801
AC275V 1uF
P801A
Lock 2P_11.88mm_S
F801
T8AL 250V
to AC Cord
LINE
NEUTRAL
1
2
D809
TND10V-471KBESLAA0
R801
1/2W510K
GAP7
0.5mm
T801
TF3022H
V13A00005800
GAP9
0.5mm
T802
TF3022H
V13A00005800
C802
AC275V0.47uF
GJ01
SHORT
GJ02
SHORT
LINE
3-A1
NEUTRAL
4-A1
GAP8
0.5mm
GAP10
0.5mm
LIVE AREA
GAP21
3.5mm+3.0mm
R809
1/2W8.2M
76004718C
C806
C807
C808
C809
250V470pF
GAP1
6.5mm
GAP3
6.5mm
GAP4
6.5mm
GAP5
6.5mm
GAP6
6.5mm
250V1000pF
250V1000pF
250V470pF
C804
250V1000pF
GAP22
3.5mm+3.0mm
There is PAL
PG01

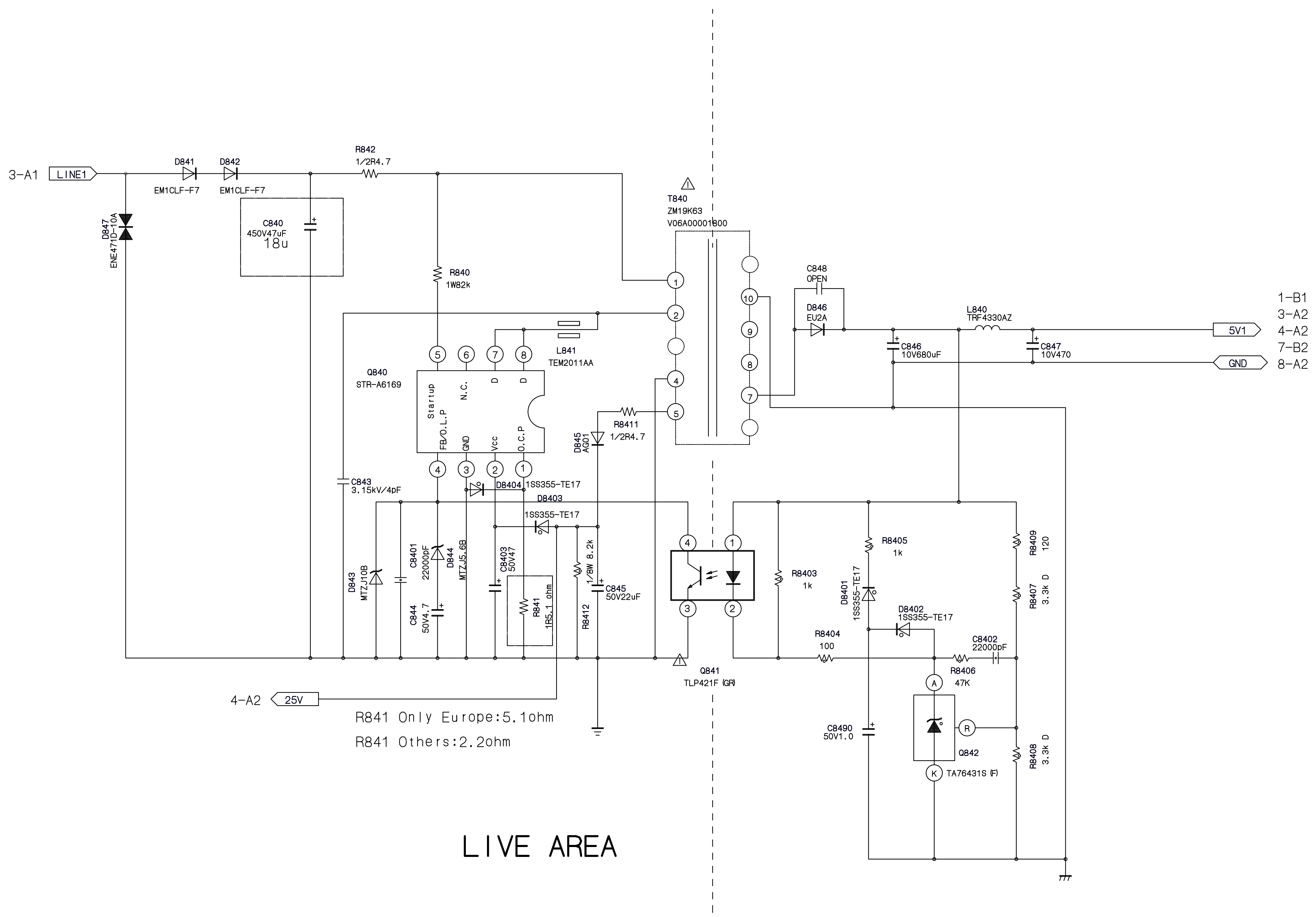
U01A POWER [2] AC INPUT (PE0401)


SR80
DLS5D1-O (M) 0.15W
4-A1
LINE2
D8310
1SS355-TE17
2SC4116-Y
Q8311
1-B1
4-A2
5-A2
7-B2
8-A2
5V1
R8310
22K
POWER
1-A1
4-B2
8-B1
R8314
1.2K
R8315
47K
D8311
MA8056-M
Q8310
2SC3326-B
PAL AC230V model
5-A1
LINE1
GJ12
OPEN
GJ11
OPEN
R832
5W4.7
R831
5W4.7
R830
RW923H1R8K
2-A2
LINE
SR81
DG12D1-O (M) -3
D8312
1SS355-TE17
12V
1-A1
6-A2
D8313
MA8091-M
R8312
470
R8313
1k
Q8312
2SC4116-Y
LIVE AREA

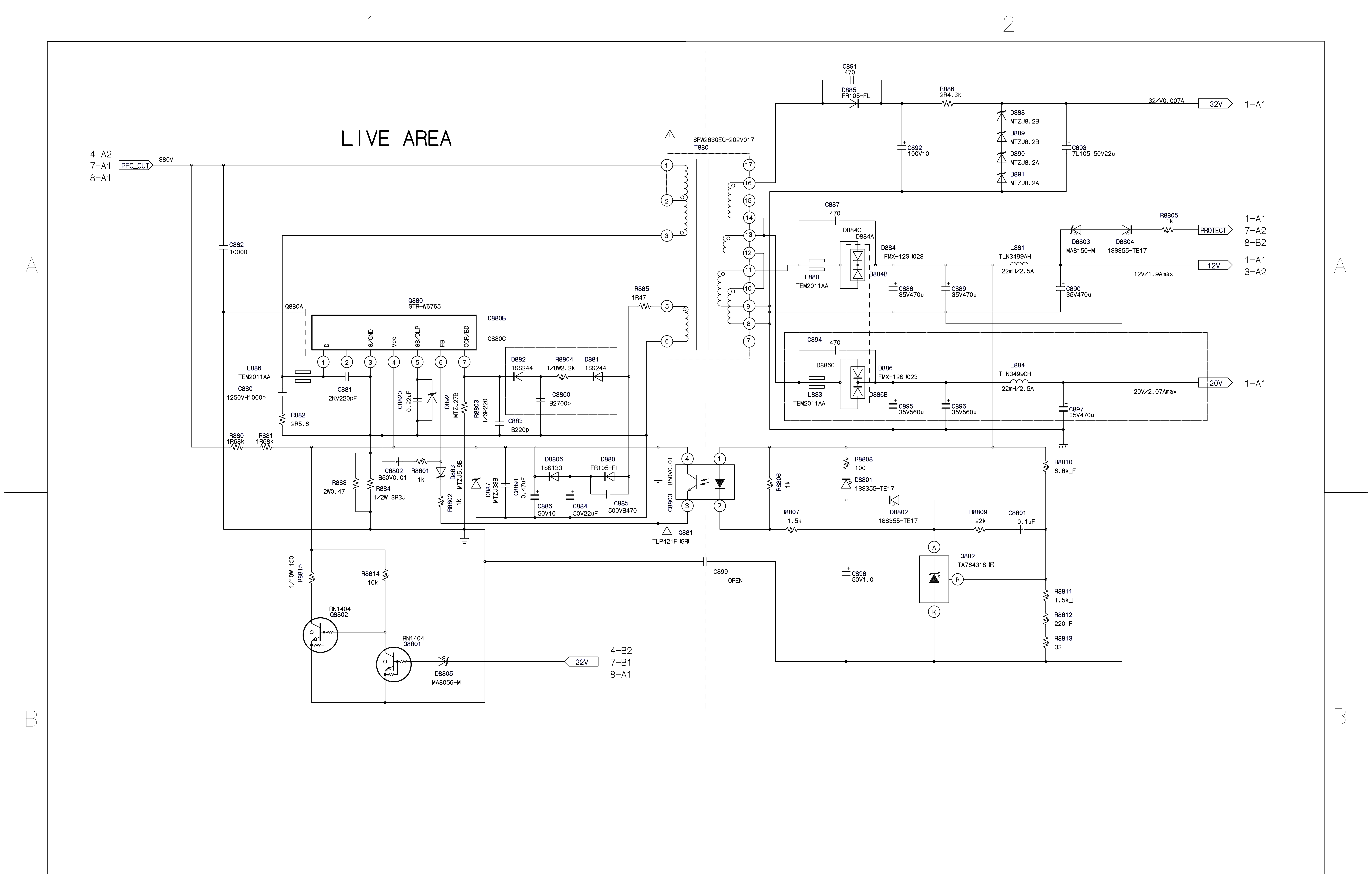
U01A POWER [3] RELAY/INRUSH (PE0401)


3-A1
LINE2
2-A2
NEUTRAL
D820
D15XB60-7009F19
D820A
HEAT SINK
70mm
D820B
D820C
GREASE SI 1K
D822
RM3A LF014-102
L826
TEM2011AA
L827
TEM2011AA
C825
OPEN
GJ20 OPEN
GJ21 OPEN
L820
T18-101A
L821
T18-101A
GJ22 OPEN
GJ23 OPEN
C8232
C823
450V 2.2uF
C824
450V 2.2uF
C8242
T820
ST-3533
R823
2W 391J
D823
D1NS4
L824
TEM2130AM
L825
TEM2130AM
R8231
1/2R22
R8232
1/2R22
R8233
10k
R8234
10k
Q822
2SA1020-Y
L822
TEM2011AA
C829
2KV470pF
Q820
FP20WM60C3-7109-10
L823
TEM2011AA
Q821
FP20WM60C3-7109-10
C828
2kV470pF
C8211
OPEN
D821B
D821C
GREASE SI 1K
D821
YG972S6R-F155A
Q821C
GREASE SI 1K
Q821B
Q820C
GREASE SI 1K
Q820B
Q820A
HEAT SINK
120mm
C827
2KV470pF
C826
2KV470pF
C820
450V/270uF
C821
450V/270uF
C822
10000
C8221
2kV1500pF
C8222
2kV1500pF
F820
T2.5AL 250V
PFC_OUT
6-A1
7-A1
8-A1
R8211
1/8W330k
R8212
1/8W330k
R8213
1/8W330k
R8214
1/8W330k
R8215
1/8W150k
R8216
CR1/16 103DV
R8217
CR1/16 102DV
R8218
SHORT
R8201
RK993DR22J
R8202
RK993DR22J
R8203
RK993DR22J
R8204
RK993DR22J
R8221
1/8W180k
R8222
1/8W180k
R8223
1/8W180k
R8224
1/8W180k
R8225
1/8W82k
R8226
1/8W100k
R8241
1/8W470k
R8242
1/8W470k
R8243
1/8W470k
R8244
1/8W470k
R824
1/8W39k
C8242
B50V0.1
R8245
CR1/16 103DV
R8251
180k
Q827
2SA1586-Y
R8250
27k
R8227
CR1/16 562DV
D829
1SS355-TE17
R8252
330
R8249
1M
R8247
27k
R8248
27k
Q828
2SC4116-Y
R8253
100k
Q829
2SC4116-Y
R8228
CR1/16 472DV
C8241
B50V0.01
R8246
75k
D828
MA8068-M
R8254
10k
D824
D1NS4
R827
1W 221J
C8291
50V22
C8292
B50V0.1u
VCC
OUT
GND
ZCD
FB
COMP
MUL
IS
IC820
FA5501AP-D1
C8297
B50V0.01
R825
10k
C8293
B10V1u
C8298
10V0.47u
C8294
0.1uF
C8295
B1000p
R826
1/8W33
D8295
D1NS4
C8296
B3300p
R8219
CR1/16 103DV
R8210
SHORT
LIVE AREA
25V
5-B1
D825
1SS355-TE17
Q823
TLP421F (GR)
R8292
4.7k
5V1
1-B1
3-A2
5-A2
7-B2
8-A2
Q824
2SC2655-Y
R8291
22K
R8290
3.3k
D826
MA8240-L
Q826
2SC4116-Y
R8293
4.7k
POWER
1-A1
3-A2
8-B1
D827
MA8056-M
Q825
RN1405 (TE85L, F)
6-B1
7-B1
8-A1
22V

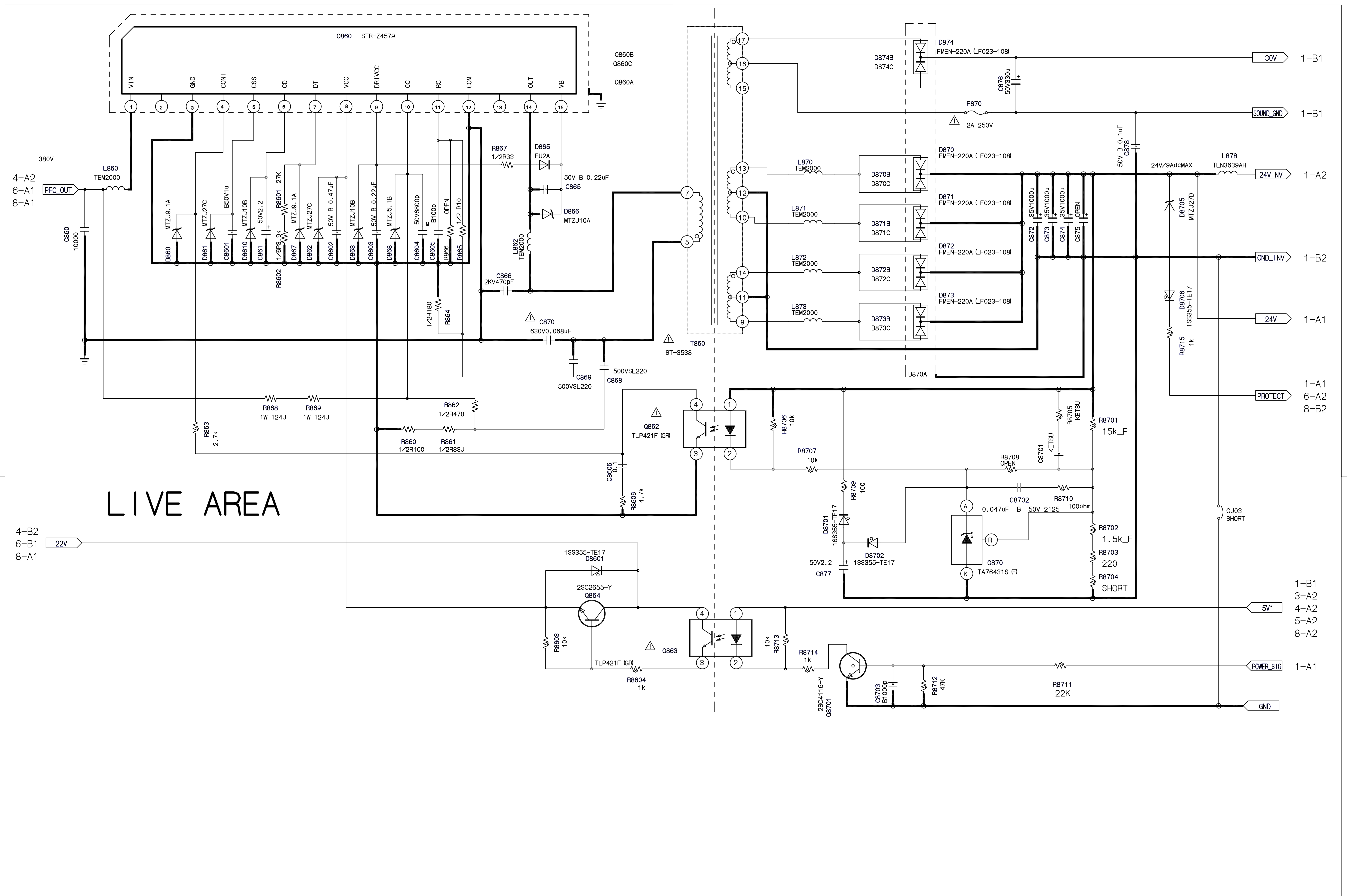
U01A POWER [4] PFC was modified. (PE0401)


3-A1
LINE1
D841
EM1CLF-F7
D842
EM1CLF-F7
D847
ENE471D-10A
C840
450V47uF
18u
R842
1/2R4.7
R840
1W82k
T840
ZM19K63
V06A00001800
L841
TEM2011AA
Q840
STR-A6169
Startup
N.C.
D
D
FB/O.L.P
GND
Vcc
O.C.P
C843
3.15kV/4pF
D8404 1SS355-TE17
D8403
1SS355-TE17
D843
MTZJ10B
C8401
22000pF
D844
MTZJ5.6B
C844
50V4.7
C8403
50V47
R841
1R5.1 ohm
1/8W 8.2k
R8412
C845
50V22uF
D845
AG01
R8411
1/2R4.7
4-A2
25V
R841 Only Europe:5.1ohm
R841 Others:2.2ohm
LIVE AREA
Q841
TLP421F (GR)
C848
OPEN
D846
EU2A
C846
10V680uF
L840
TRF4330AZ
C847
10V470
5V1
GND
1-B1
3-A2
4-A2
7-B2
8-A2
R8403
1k
R8405
1k
D8401
1SS355-TE17
D8402
1SS355-TE17
R8404
100
C8402
22000pF
R8406
47K
C8490
50V1.0
Q842
TA76431S (F)
R8409
120
R8407
3.3k D
R8408
3.3k D

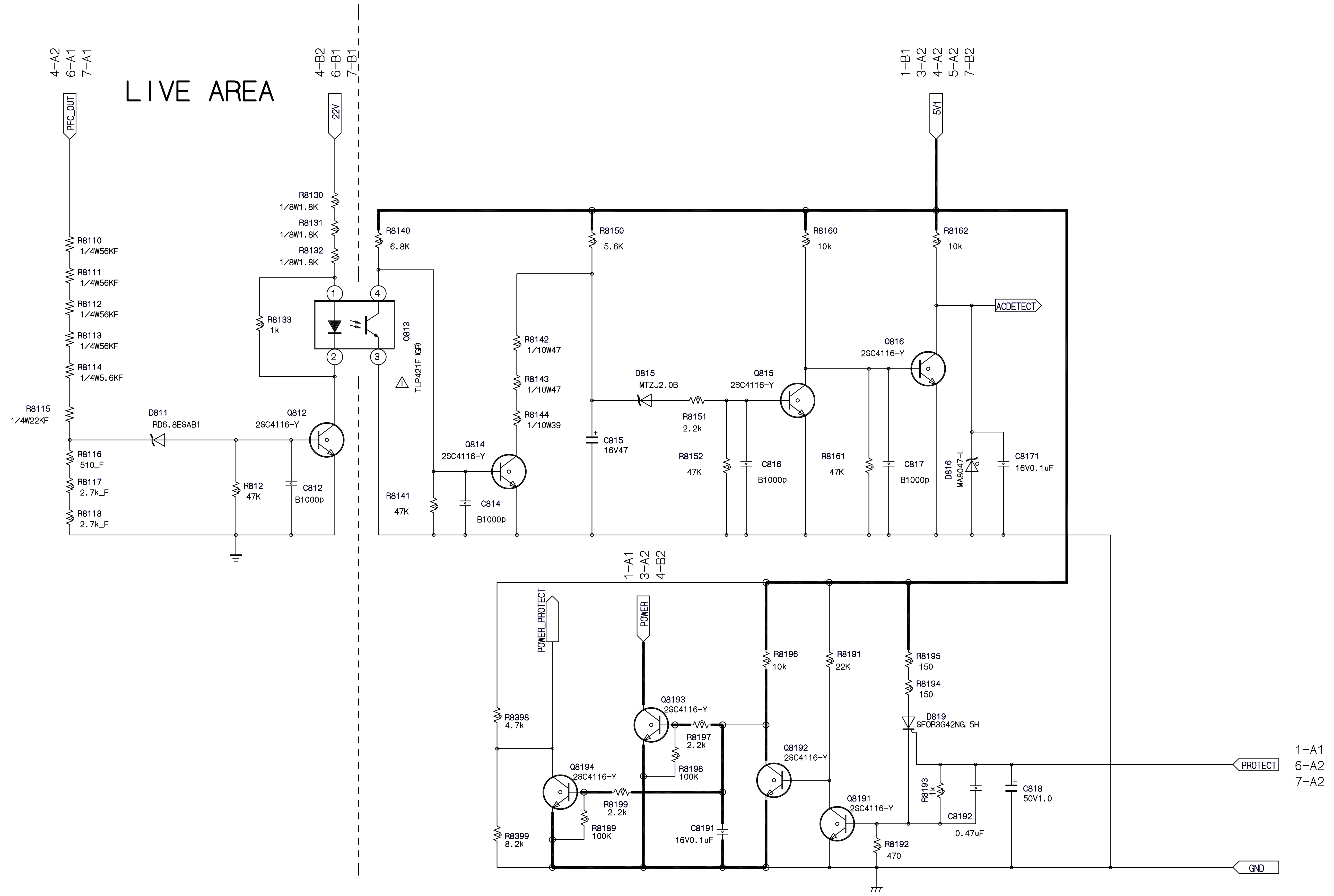
U01A POWER [5] STANDBY (PE0401)


1
2
A
B
LIVE AREA
4-A2
7-A1
8-A1
PFC_OUT
380V
C882
10000
Q880A
Q880
STR-W6765
Q880B
Q880C
D
S/GND
Vcc
SS/OLP
FB
OCP/BD
L886
TEM2011AA
C880
1250VH1000p
C881
2KV220pF
R882
2R5.6
C8820
0.22uF
D892
MTZJ27B
R8803
1/6P220
C883
B220p
D882
1SS244
R8804
1/8W2.2k
D881
1SS244
C8860
B2700p
R885
1R47
SRW2630EG-202V017
T880
R880
1R68k
R881
1R68k
R883
2W0.47
R884
1/2W 3R3J
C8802
B50V0.01
R8801
1k
D883
MTZJ5.6B
R8802
1k
D887
MTZJ33B
C8891
0.47uF
D8806
1SS133
C886
50V10
C884
50V22uF
D880
FR105-FL
C885
500VB470
C8803
B50V0.01
Q881
TLP421F (GR)
C899
OPEN
R8815
1/10W 150
R8814
10k
RN1404
Q8802
RN1404
Q8801
D8805
MA8056-M
22V
4-B2
7-B1
8-A1
C891
470
D885
FR105-FL
R886
2R4.3k
C892
100V10
D888
MTZJ8.2B
D889
MTZJ8.2B
D890
MTZJ8.2A
D891
MTZJ8.2A
C893
7L105 50V22u
32/V0.007A
32V
1-A1
C887
470
D884C
D884A
D884B
D884
FMX-12S (023
L880
TEM2011AA
C888
35V470u
C889
35V470u
L881
TLN3499AH
22mH/2.5A
C890
35V470u
D8803
MA8150-M
D8804
1SS355-TE17
R8805
1k
PROTECT
1-A1
7-A2
8-B2
12V
12V/1.9Amax
1-A1
3-A2
C894
470
D886C
D886B
D886
FMX-12S (023
L883
TEM2011AA
C895
35V560u
C896
35V560u
L884
TLN3499GH
22mH/2.5A
C897
35V470u
20V/2.07Amax
20V
1-A1
R8806
1k
R8807
1.5k
R8808
100
D8801
1SS355-TE17
D8802
1SS355-TE17
C898
50V1.0
Q882
TA76431S (F)
A
R
K
R8809
22k
C8801
0.1uF
R8810
6.8k_F
R8811
1.5k_F
R8812
220_F
R8813
33

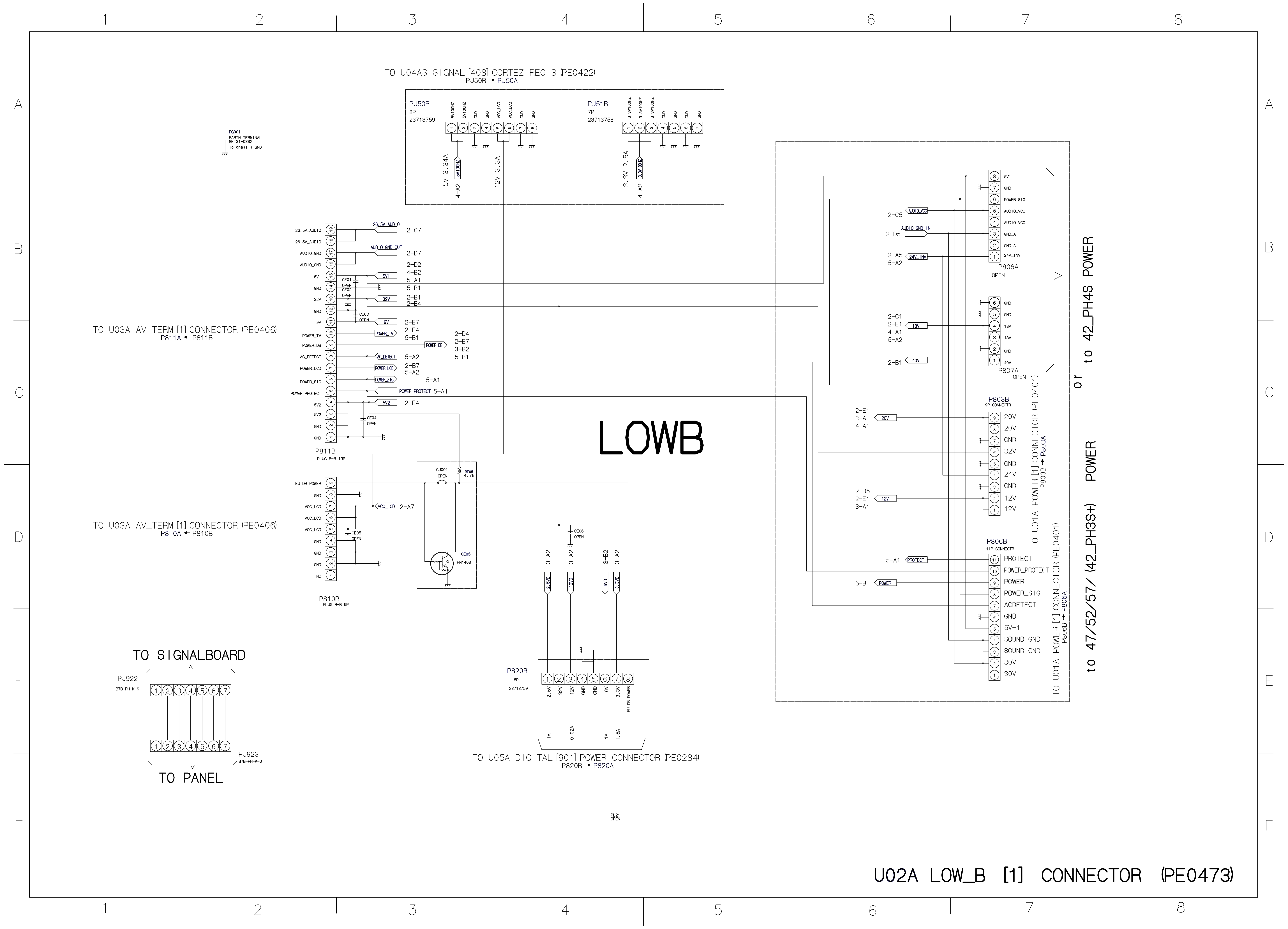
U01A POWER [6] RCC (PE0401)


Q860 STR-Z4579
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
Q860B
Q860C
Q860A
380V
4-A2
6-A1
8-A1
PFC_OUT
L860
TEM2000
C860
10000
MTZJ9.1A
D860
MTZJ27C
D861
C8601
B50V1u
MTZJ10B
D8610
50V2.2
C861
R8601 27K
1/6P3.9k
R8602
MTZJ9.1A
D867
MTZJ27C
D862
50V B 0.47uF
C8602
MTZJ10B
D863
50V B 0.22uF
C8603
MTZJ5.1B
D868
50V6800p
C8604
B100p
C8605
OPEN
R866
1/2 R10
R865
1/2R180
R864
R867
1/2R33
D865
EU2A
50V B 0.22uF
C865
D866
MTZJ10A
L862
TEM2000
C866
2KV470pF
C870
630V0.068uF
C869
500VSL220
500VSL220
C868
T860
ST-3538
R868
1W 124J
R869
1W 124J
R862
1/2R470
R863
2.7k
R860
1/2R100
R861
1/2R33J
Q862
TLP421F (GR)
C8606
0.1
R8606
4.7k
LIVE AREA
D874B
D874C
D874
FMEN-220A (LF023-108)
C876
50V330u
30V
1-B1
F870
2A 250V
SOUND_GND
1-B1
50V B 0.1uF
C878
L870
TEM2000
D870B
D870C
D870
FMEN-220A (LF023-108)
24V/9AdcMAX
L878
TLN3639AH
24VINV
1-A2
L871
TEM2000
D871B
D871C
D871
FMEN-220A (LF023-108)
35V1000u
C872
35V1000u
C873
35V1000u
C874
OPEN
C875
D8705
MTZJ27D
L872
TEM2000
D872B
D872C
D872
FMEN-220A (LF023-108)
GND_INV
1-B2
L873
TEM2000
D873B
D873C
D873
FMEN-220A (LF023-108)
D8706
1SS355-TE17
24V
1-A1
R8715
1k
D870A
PROTECT
1-A1
6-A2
8-B2
R8706
10k
R8707
10k
R8705
KETSU
C8701
KETSU
R8708
OPEN
R8701
15k_F
R8709
100
C8702
0.047uF B 50V 2125
R8710
100ohm
D8701
1SS355-TE17
D8702
1SS355-TE17
Q870
TA76431S (F)
R8702
1.5k_F
R8703
220
R8704
SHORT
50V2.2
C877
GJ03
SHORT
4-B2
6-B1
8-A1
22V
1SS355-TE17
D8601
2SC2655-Y
Q864
R8603
10k
TLP421F (GR)
Q863
R8604
1k
10k
R8713
R8714
1k
2SC4116-Y
Q8701
C8703
B1000p
R8712
47K
R8711
22K
5V1
1-B1
3-A2
4-A2
5-A2
8-A2
POWER_SIG
1-A1
GND

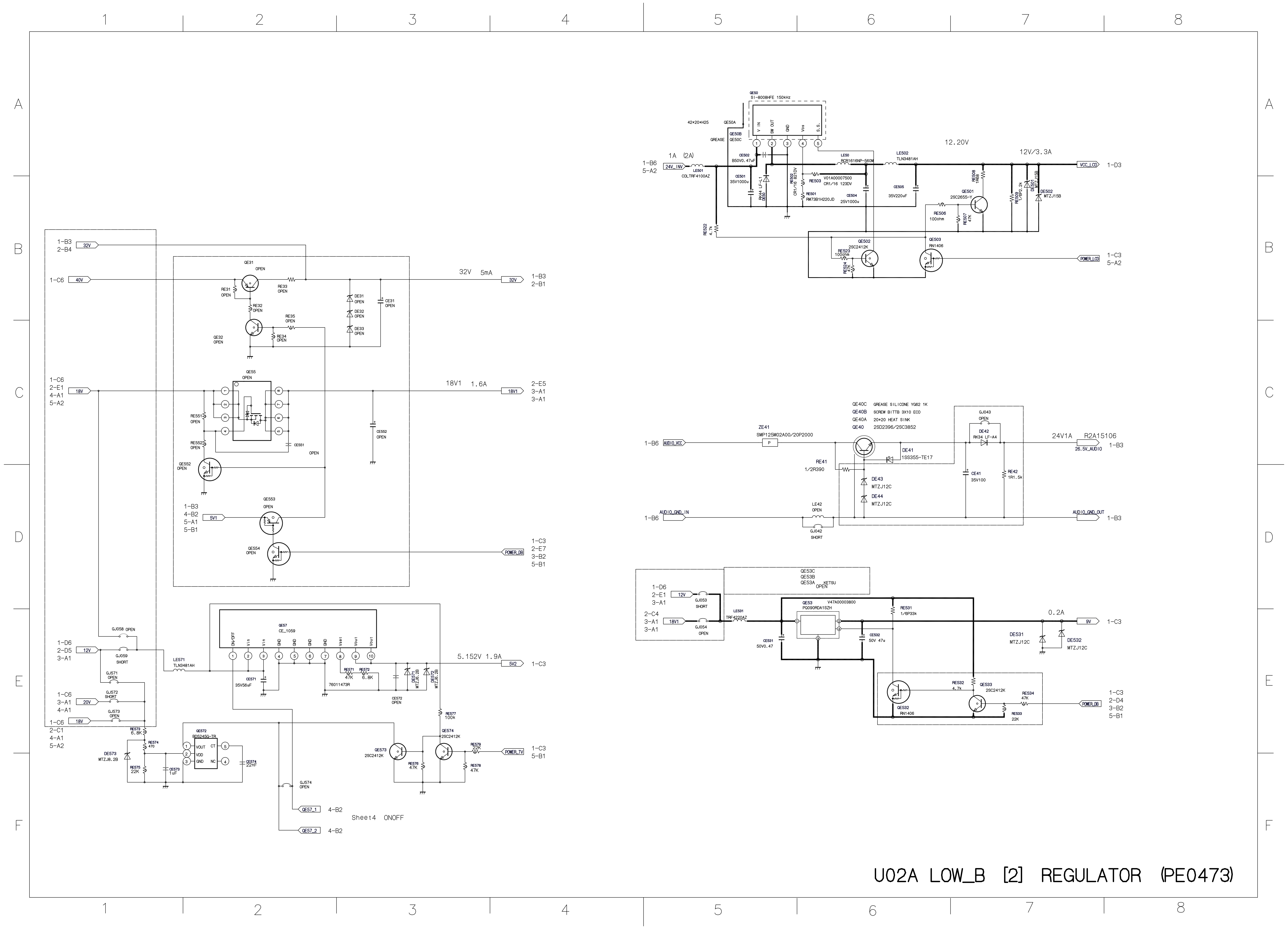
U01A POWER [7] RESONANT (PE0401)


LIVE AREA
4-A2
6-A1
7-A1
PFC_OUT
4-B2
6-B1
7-B1
22V
1-B1
3-A2
4-A2
5-A2
7-B2
5V1
R8110
1/4W56KF
R8111
1/4W56KF
R8112
1/4W56KF
R8113
1/4W56KF
R8114
1/4W5.6KF
R8115
1/4W22KF
R8116
510_F
R8117
2.7k_F
R8118
2.7k_F
D811
RD6.8ESAB1
Q812
2SC4116-Y
R812
47K
C812
B1000p
R8130
1/8W1.8K
R8131
1/8W1.8K
R8132
1/8W1.8K
R8133
1k
1
2
3
4
Q813
TLP421F (GR)
R8140
6.8K
R8141
47K
Q814
2SC4116-Y
C814
B1000p
R8142
1/10W47
R8143
1/10W47
R8144
1/10W39
R8150
5.6K
C815
16V47
D815
MTZJ2.0B
R8151
2.2k
R8152
47K
C816
B1000p
Q815
2SC4116-Y
R8160
10k
R8161
47K
C817
B1000p
Q816
2SC4116-Y
R8162
10k
ACDETECT
D816
MA8047-L
C8171
16V0.1uF
1-A1
3-A2
4-B2
POWER_PROTECT
POWER
R8398
4.7k
R8399
8.2k
Q8194
2SC4116-Y
R8199
2.2k
R8189
100K
Q8193
2SC4116-Y
R8197
2.2k
R8198
100K
C8191
16V0.1uF
R8196
10k
Q8192
2SC4116-Y
R8191
22K
Q8191
2SC4116-Y
R8192
470
R8195
150
R8194
150
D819
SFOR3G42NG 5H
R8193
1k
C8192
0.47uF
C818
50V1.0
PROTECT
1-A1
6-A2
7-A2
GND

U01A POWER [8] PROTECT AC DETECT (PE0401)

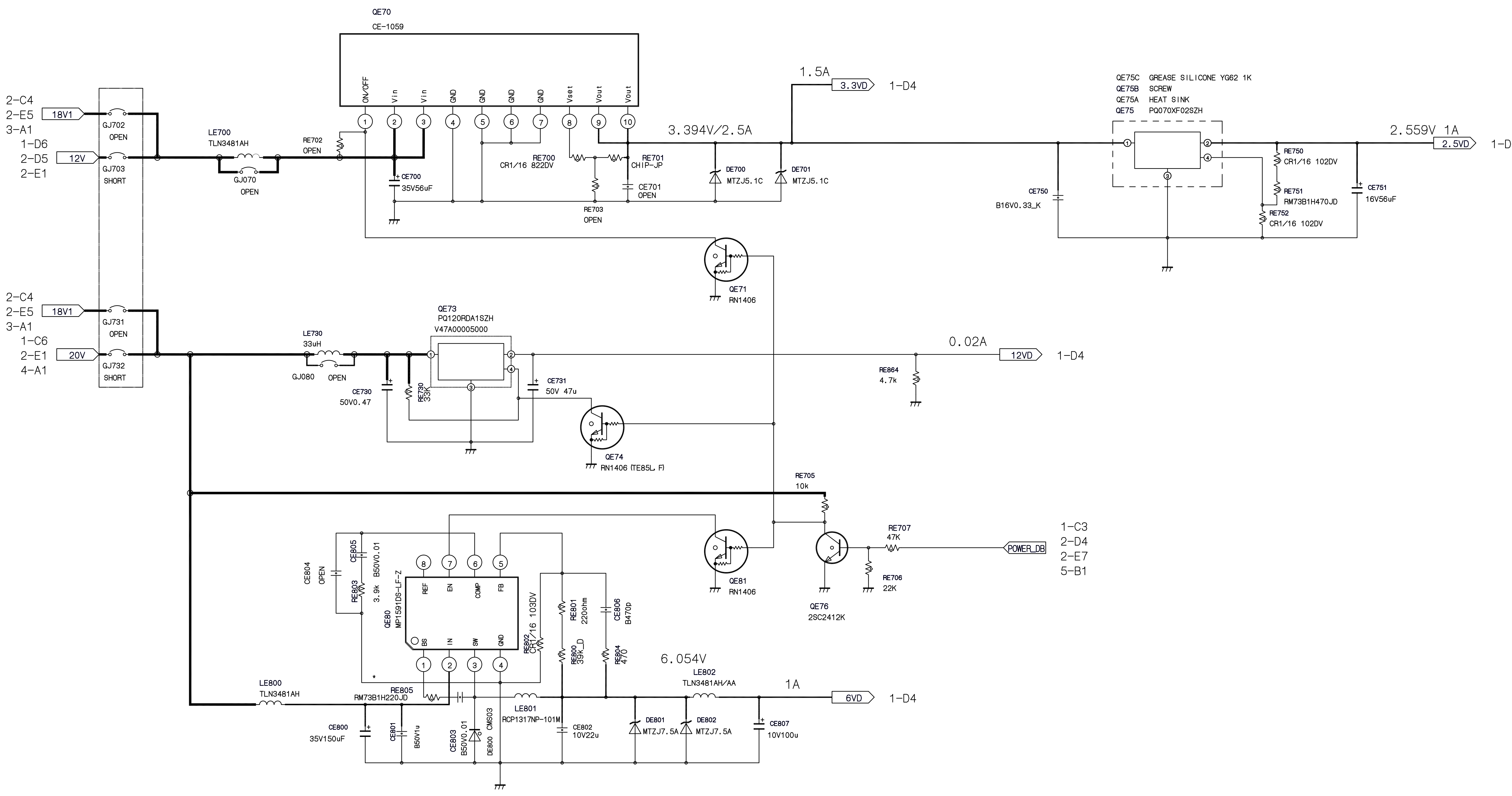

TO U04AS SIGNAL [408] CORTEZ REG 3 (PE0422)
PJ50B → PJ50A
PJ50B
8P
23713759
PJ51B
7P
23713758
5V 3.34A
12V 3.3A
3.3V 2.5A
PG001
EARTH TERMINAL
To chassis GND
TO U03A AV_TERM [1] CONNECTOR (PE0406)
P811A ← P811B
26.5V_AUDIO
AUDIO_GND
5V1
GND
32V
9V
POWER_TV
POWER_DB
AC_DETECT
POWER_LCD
POWER_SIG
POWER_PROTECT
5V2
P811B
PLUG B-B 19P
TO U03A AV_TERM [1] CONNECTOR (PE0406)
P810A ← P810B
EU_DB_POWER
VCC_LCD
NC
P810B
PLUG B-B 9P
QJ001
OPEN
QE05
RN1403
LOWB
TO SIGNALBOARD
PJ922
TO PANEL
PJ923
P820B
8P
23713759
2.5V
32V
12V
GND
6V
3.3V
EU_DB_POWER
1A
0.02A
1A
1.5A
TO U05A DIGITAL [901] POWER CONNECTOR (PE0284)
P820B → P820A
P806A
OPEN
P807A
OPEN
or to 42_PH4S POWER
P803B
8P CONNECTR
20V
GND
32V
24V
12V
TO U01A POWER [1] CONNECTOR (PE0401)
P803B → P803A
POWER
P806B
11P CONNECTR
PROTECT
POWER_PROTECT
POWER
POWER_SIG
ACDETECT
GND
5V-1
SOUND GND
30V
TO U01A POWER [1] CONNECTOR (PE0401)
P806B → P806A
to 47/52/57/ (42_PH3S+)
PL21
OPEN

U02A LOW_B [1] CONNECTOR (PE0473)

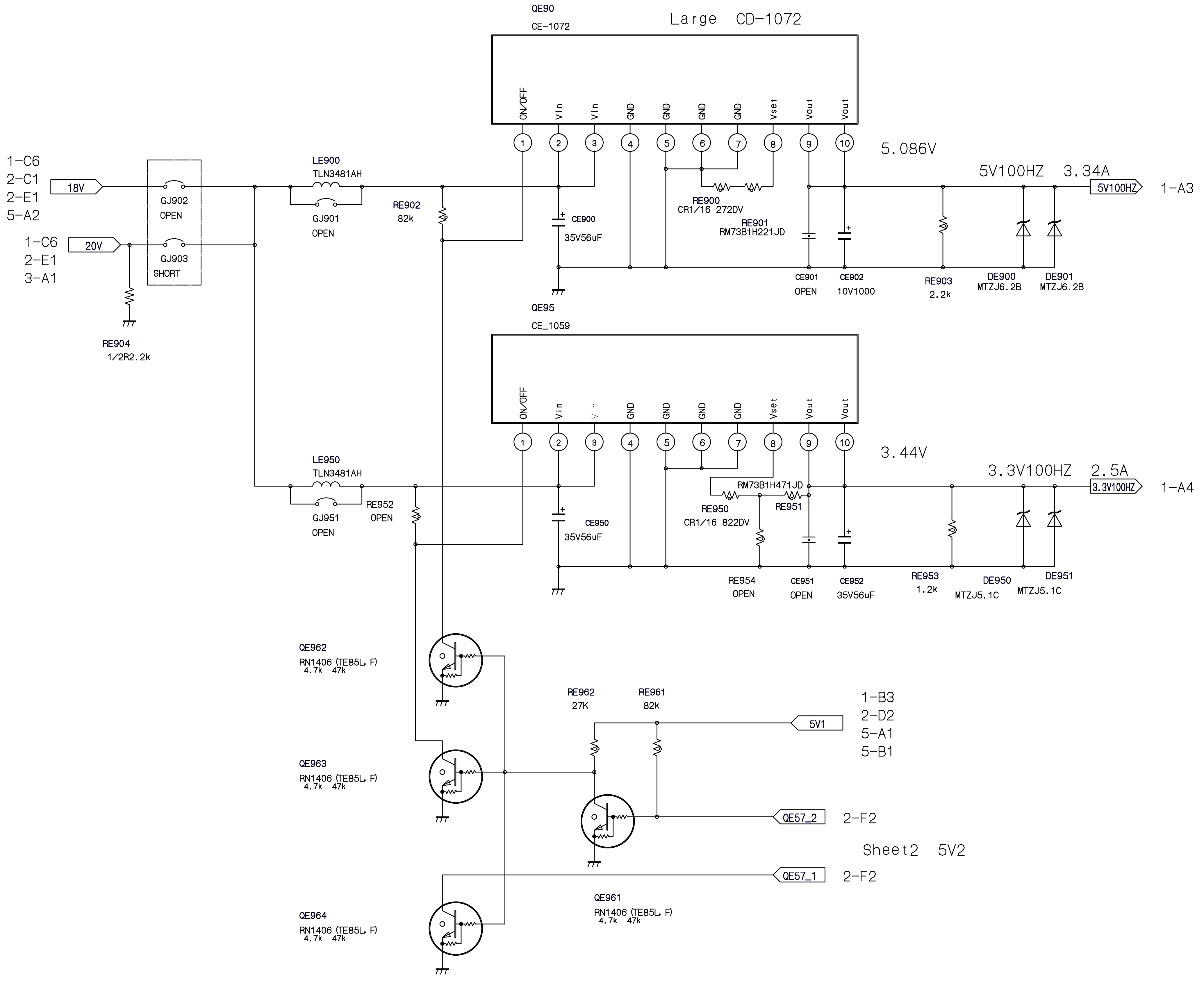


1-B3
2-B4
32V
1-C6
40V
QE31 OPEN
RE31 OPEN
RE32 OPEN
RE33 OPEN
RE34 OPEN
RE35 OPEN
QE32 OPEN
DE31 OPEN
DE32 OPEN
DE33 OPEN
CE31 OPEN
32V 5mA
1-B3
2-B1
1-C6
2-E1
4-A1
5-A2
18V
QE55 OPEN
RE551 OPEN
RE552 OPEN
QE552 OPEN
CE551
CE552 OPEN
18V1 1.6A
2-E5
3-A1
3-A1
1-B3
4-B2
5-A1
5-B1
5V1
QE553
QE554 OPEN
POWER_DS
1-C3
2-E7
3-B2
5-B1
GJ058 OPEN
1-D6
2-D5
3-A1
12V
GJ059 SHORT
GJ571 OPEN
1-C6
3-A1
4-A1
20V
GJ572 SHORT
GJ573 OPEN
1-C6
2-C1
4-A1
5-A2
18V
LE571 TLN3481AH
QE57 CE_1059
ON/OFF
V IN
V IN
GND
GND
GND
GND
Vout
Vout
Vout
CE571 35V56uF
RE571 47K
RE572 6.8K
76011473R
CE572 OPEN
5.152V 1.9A
5V2
1-C3
RE573 6.8K
RE574 470
DE573 MTZJ6.2B
RE575 22K
CE573 1uF
QE572 RD5245G-TR
VOUT
VDD
GND
CT
NC
CE574 22nF
RE577 100k
QE573 2SC2412K
QE574 2SC2412K
RE576 47K
RE578 47K
RE579
POWER_TV
1-C3
5-B1
GJ574 OPEN
QE57_1
4-B2
QE57_2
4-B2
Sheet4 ONOFF
QE50 SI-8008HFE 150kHz
42×20×H25
QE50A
QE50B
QE50C
GREASE
V IN
SW OUT
GND
Vos
S.S.
1-B6
5-A2
1A (2A)
24V_IN
LE501 COLTRF4100AZ
CE501 35V1000u
CE502 B50V0.47uF
LE50 RER1016NP-560M
LE502 TLN3481AH
RE501 RM73B1H220J0
RE503
V01A00007500 OR1/16 1230V
CE504 25V1000u
CE505 35V220uF
12.20V
12V/3.3A
VCC_LCD
1-D3
QE501 2SC2655-Y
RE505
RE506 100ohm
RE507 47K
DE502 MTZJ15B
RE522 4.7K
QE502 2SC2412K
RE523 100ohm
QE503 RN1406
POWER_LCD
1-C3
5-A2
QE40C GREASE SILICONE YG62 1K
QE40B SCREW BITTS 3X10 ECO
QE40A 20×20 HEAT SINK
QE40 2SD2396/2SC3852
ZE41 SMP125M02A00/20P2000
P
1-B6
AUDIO_VCC
RE41 1/2R390
DE41 1SS355-TE17
DE43 MTZJ12C
DE44 MTZJ12C
GJ043 OPEN
DE42 RK34_LF-A4
CE41 35V100
RE42 1R1.5A
24V1A R2A15106
26.5V_AUDIO
1-B3
AUDIO_GND_IN
1-B6
LE42 OPEN
GJ042 SHORT
AUDIO_GND_OUT
1-B3
QE53C
QE53B
QE53A KETSU OPEN
1-D6
2-E1
3-A1
12V
GJ053 SHORT
2-C4
3-A1
3-A1
18V1
GJ054 OPEN
LE531 TRF4220AZ
QE53 PQ090RDA1SZH
V47A00003600
CE531 50V0.47
CE532 50V 47u
RE531 1/6P33k
0.2A
9V
1-C3
DE531 MTZJ12C
DE532 MTZJ12C
RE532 4.7k
QE533 2SC2412K
RE534 47K
RE533 22K
QE532 RN1406
POWER_DS
1-C3
2-D4
3-B2
5-B1
1 2 3 4 5 6 7 8
A B C D E F

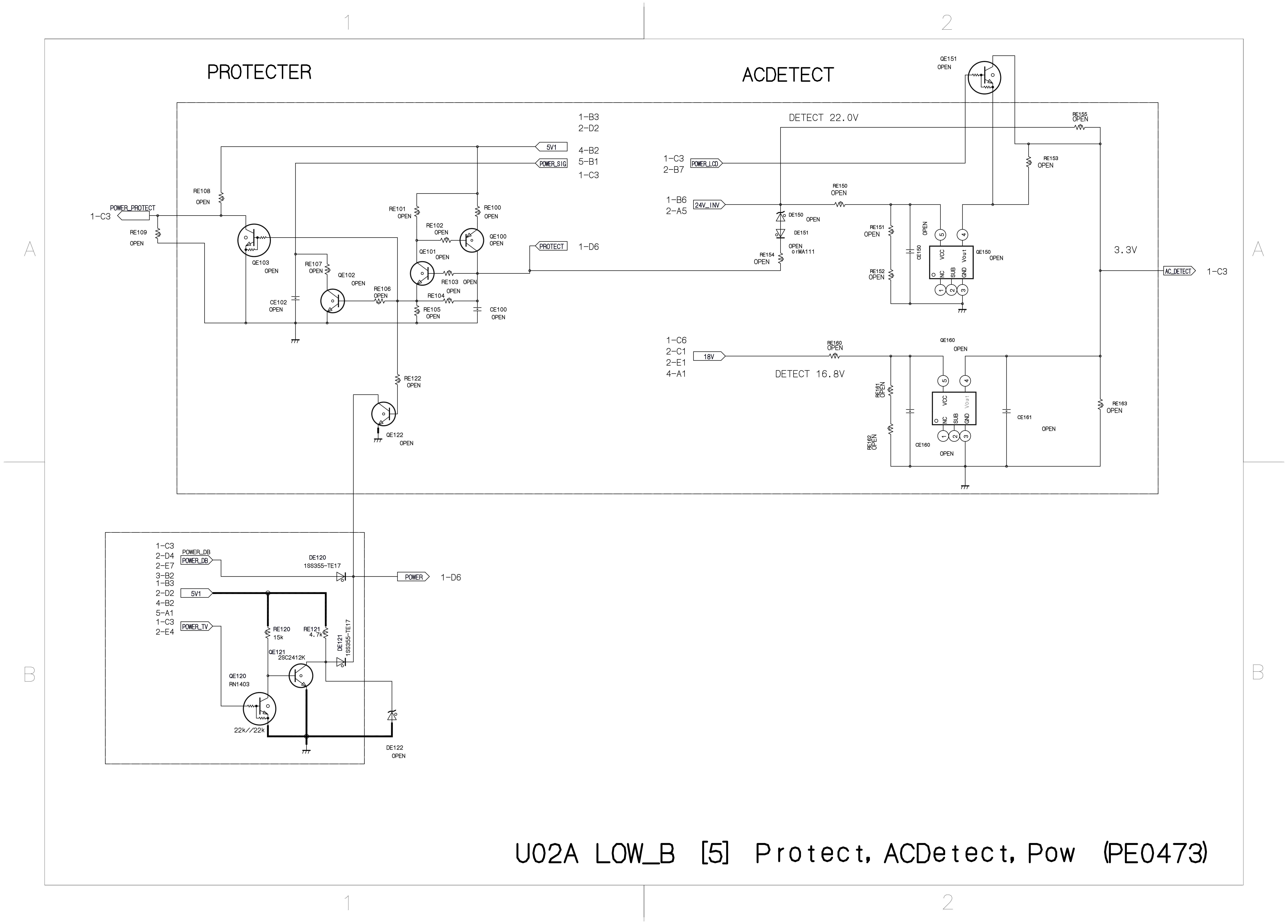
U02A LOW_B [2] REGULATOR (PE0473)


QE70
CE-1059
ON/OFF
Vin
GND
Vext
Vout
1.5A
3.3VD
1-D4
3.394V/2.5A
2-C4
2-E5
3-A1
1-D6
2-D5
2-E1
18V1
12V
GJ702
OPEN
GJ703
SHORT
LE700
TLN3481AH
GJ070
OPEN
RE702
OPEN
CE700
35V56uF
RE700
CR1/16 822DV
RE701
CHIP-JP
CE701
OPEN
RE703
OPEN
DE700
MTZJ5.1C
DE701
MTZJ5.1C
QE75C GREASE SILICONE YG62 1K
QE75B SCREW
QE75A HEAT SINK
QE75 PQ070XF02SZH
2.559V 1A
2.5VD
1-D4
CE750
B16V0.33_K
RE750
CR1/16 102DV
RE751
RM73B1H470JD
RE752
CR1/16 102DV
CE751
16V56uF
QE71
RN1406
2-C4
2-E5
3-A1
1-C6
2-E1
4-A1
18V1
20V
GJ731
OPEN
GJ732
SHORT
LE730
33uH
GJ080
OPEN
QE73
PQ120RDA1SZH
V47A00005000
CE730
50V0.47
RE730
33K
CE731
50V 47u
QE74
RN1406 (TE85L, F)
0.02A
12VD
1-D4
RE864
4.7k
RE705
10k
RE707
47K
POWER_DB
1-C3
2-D4
2-E7
5-B1
RE706
22K
QE76
2SC2412K
QE81
RN1406
CE804
OPEN
CE805
B50V0.01
RE803
3.9k
QE80
MP1591DS-LF-Z
REF
EN
COMP
FB
BS
IN
SW
GND
RE802
CR1/16 1030V
RE801
220ohm
CE806
B470p
RE800
39K_D
RE804
470
6.054V
LE802
TLN3481AH/AA
1A
6VD
1-D4
LE800
TLN3481AH
RE805
RM73B1H220JD
CE800
35V150uF
CE801
B50V1u
CE803
B50V0.01
DE800
CMS03
LE801
RCP1317NP-101M
CE802
10V22u
DE801
MTZJ7.5A
DE802
MTZJ7.5A
CE807
10V100u
1
2
A
B

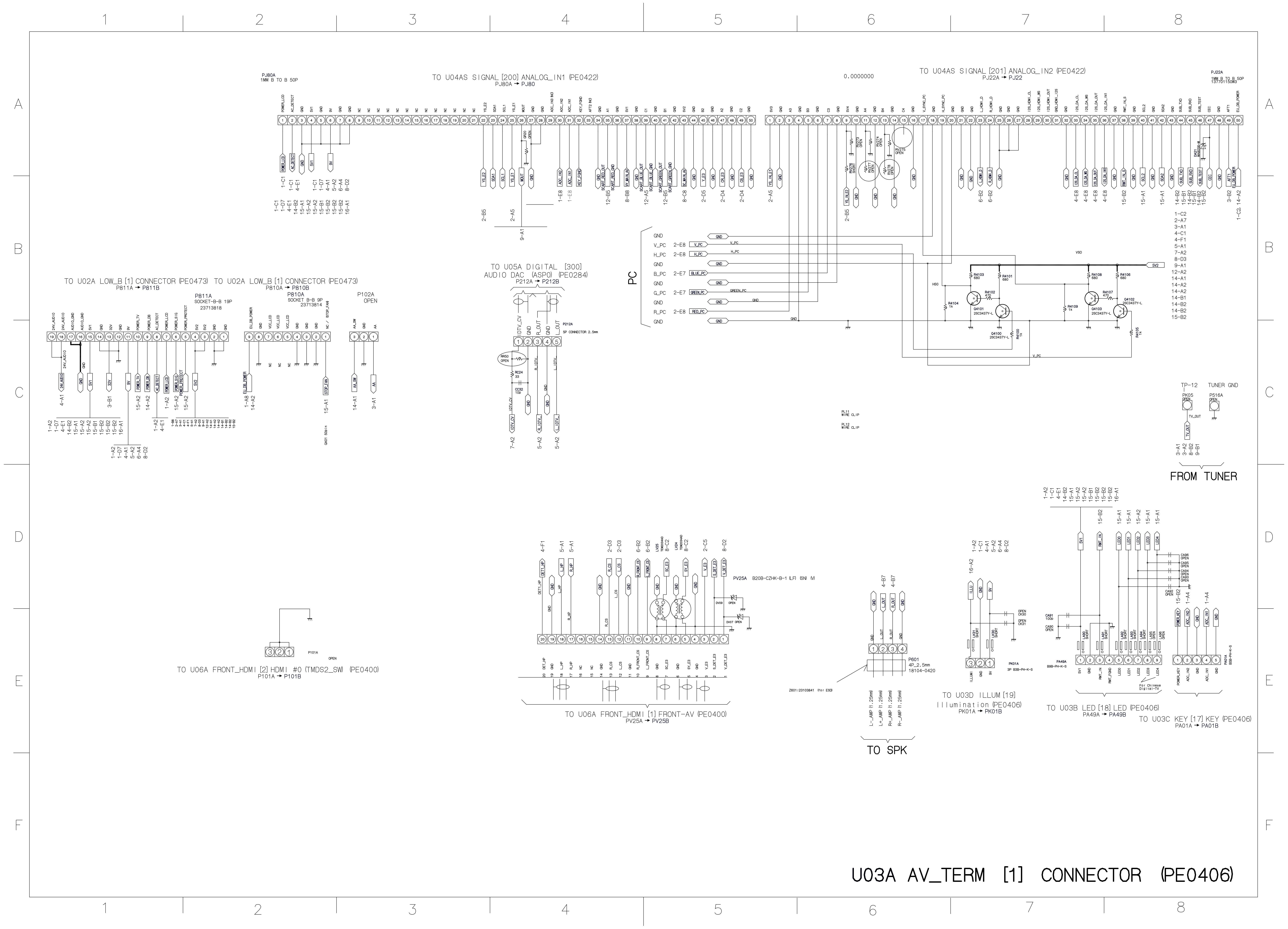
U02A LOW_B [3] UK DIGITAL (PE0473)


QE90
CE-1072
Large CD-1072
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
5.086V
5V100HZ 3.34A
5V100HZ
1-A3
1-C6
2-C1
2-E1
5-A2
18V
GJ902
OPEN
1-C6
2-E1
3-A1
20V
GJ903
SHORT
RE904
1/2R2.2k
LE900
TLN3481AH
GJ901
OPEN
RE902
82k
CE900
35V56uF
RE900
CR1/16 272DV
RE901
RM73B1H221JD
CE901
OPEN
CE902
10V1000
RE903
2.2k
DE900
MTZJ6.2B
DE901
MTZJ6.2B
QE95
CE_1059
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
3.44V
3.3V100HZ 2.5A
3.3V100HZ
1-A4
LE950
TLN3481AH
GJ951
OPEN
RE952
OPEN
CE950
35V56uF
RM73B1H471JD
RE950
CR1/16 822DV
RE951
RE954
OPEN
CE951
OPEN
CE952
35V56uF
RE953
1.2k
DE950
MTZJ5.1C
DE951
MTZJ5.1C
QE962
RN1406 (TE85L, F)
4.7k 47k
QE963
RN1406 (TE85L, F)
4.7k 47k
QE964
RN1406 (TE85L, F)
4.7k 47k
RE962
27K
RE961
82k
5V1
1-B3
2-D2
5-A1
5-B1
QE57_2
2-F2
Sheet2 5V2
QE57_1
2-F2
QE961
RN1406 (TE85L, F)
4.7k 47k

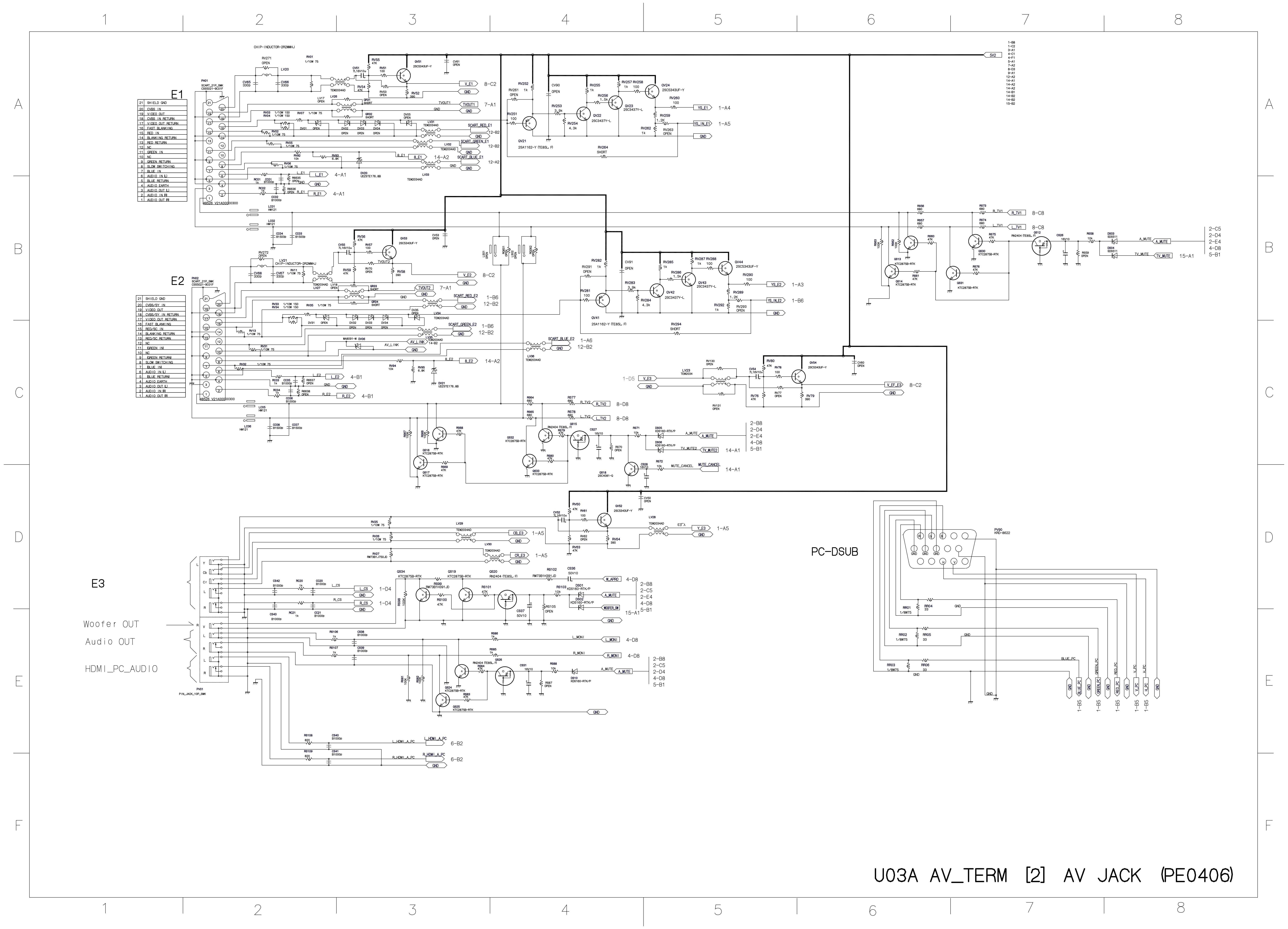
U02A LOW_B [4] for SIG100HZ (PE0473)


1
2
A
B
PROTECTER
ACDETECT
1-B3
2-D2
5V1
4-B2
POWER_SIG
5-B1
1-C3
1-C3
POWER_PROTECT
RE108
OPEN
RE109
OPEN
QE103
OPEN
RE101
OPEN
RE100
OPEN
RE102
OPEN
QE100
OPEN
PROTECT
1-D6
QE101
OPEN
RE107
OPEN
QE102
OPEN
RE106
OPEN
RE103
OPEN
RE104
OPEN
CE102
OPEN
RE105
OPEN
CE100
OPEN
RE122
OPEN
QE122
OPEN
QE151
OPEN
DETECT 22.0V
RE155
OPEN
1-C3
2-B7
POWER_LCD
RE153
OPEN
1-B6
2-A5
24V_INV
RE150
OPEN
DE150
OPEN
DE151
OPEN
orMA111
RE154
OPEN
RE151
OPEN
CE150
OPEN
RE152
OPEN
VCC
Vout
NC
SUB
GND
1
2
3
4
5
QE150
OPEN
3.3V
AC_DETECT
1-C3
1-C6
2-C1
2-E1
4-A1
18V
RE160
OPEN
DETECT 16.8V
QE160
OPEN
RE161
OPEN
RE162
OPEN
CE160
OPEN
CE161
OPEN
RE163
OPEN
1-C3
2-D4
2-E7
3-B2
1-B3
2-D2
4-B2
5-A1
1-C3
2-E4
POWER_DB
POWER_DB
5V1
POWER_TV
DE120
1SS355-TE17
POWER
1-D6
RE120
15k
RE121
4.7k
DE121
1SS355-TE17
QE121
2SC2412K
QE120
RN1403
22k//22k
DE122
OPEN

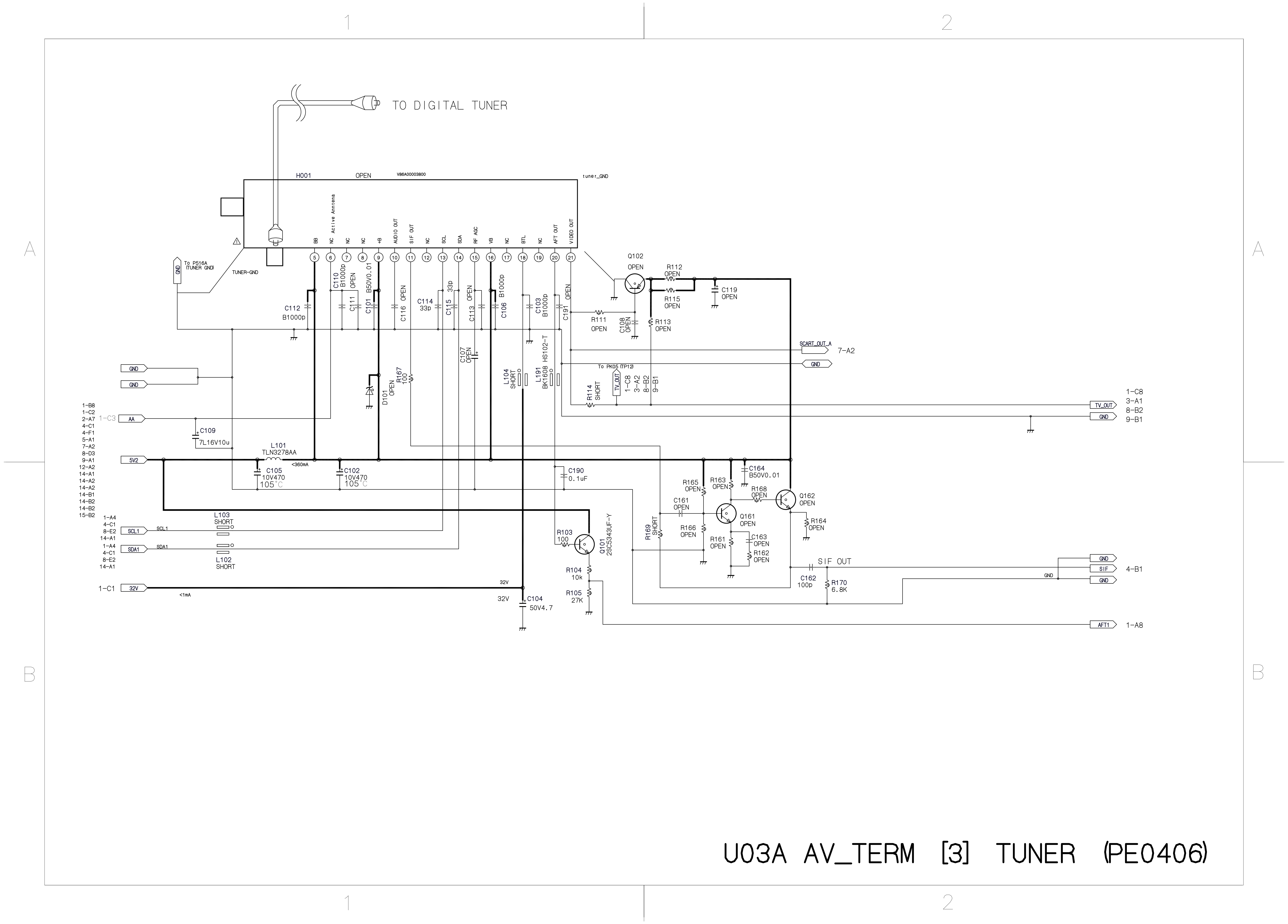
U02A LOW_B [5] Protect, ACDetect, Pow (PE0473)


TO U04AS SIGNAL [200] ANALOG_IN1 (PE0422)
PJ80A → PJ80
PJ80A
1MM B TO B 50P
TO U04AS SIGNAL [201] ANALOG_IN2 (PE0422)
PJ22A → PJ22
PJ22A
0.0000000
TO U02A LOW_B [1] CONNECTOR (PE0473)
P811A → P811B
TO U02A LOW_B [1] CONNECTOR (PE0473)
P810A → P810B
P811A
SOCKET-B-B 19P
P810A
SOCKET B-B 9P
P102A
OPEN
TO U05A DIGITAL [300]
AUDIO DAC (ASP0) (PE0284)
P212A → P212B
P212A
5P CONNECTOR 2.5mm
PC
GND
V_PC
H_PC
GND
B_PC
GND
G_PC
GND
R_PC
GND
2-E8
2-E8
2-E7
2-E7
2-E8
Q4101
Q4100
Q4103
Q4102
2SC3437Y-L
TP-12
TUNER GND
PK05
P516A
FROM TUNER
TO U06A FRONT_HDMI [2] HDMI #0 (TMDS2_SW) (PE0400)
P101A → P101B
P101A
PV25A
TO U06A FRONT_HDMI [1] FRONT-AV (PE0400)
PV25A → PV25B
P601
4P_2.5mm
TO SPK
L-_AMP 0.25mm
L+_AMP 0.25mm
R-_AMP 0.25mm
R+_AMP 0.25mm
TO U03D ILLUM [19]
Illumination (PE0406)
PK01A → PK01B
PK01A
3P
TO U03B LED [18] LED (PE0406)
PA49A → PA49B
PA49A
TO U03C KEY [17] KEY (PE0406)
PA01A → PA01B
1
2
3
4
5
6
7
8
A
B
C
D
E
F

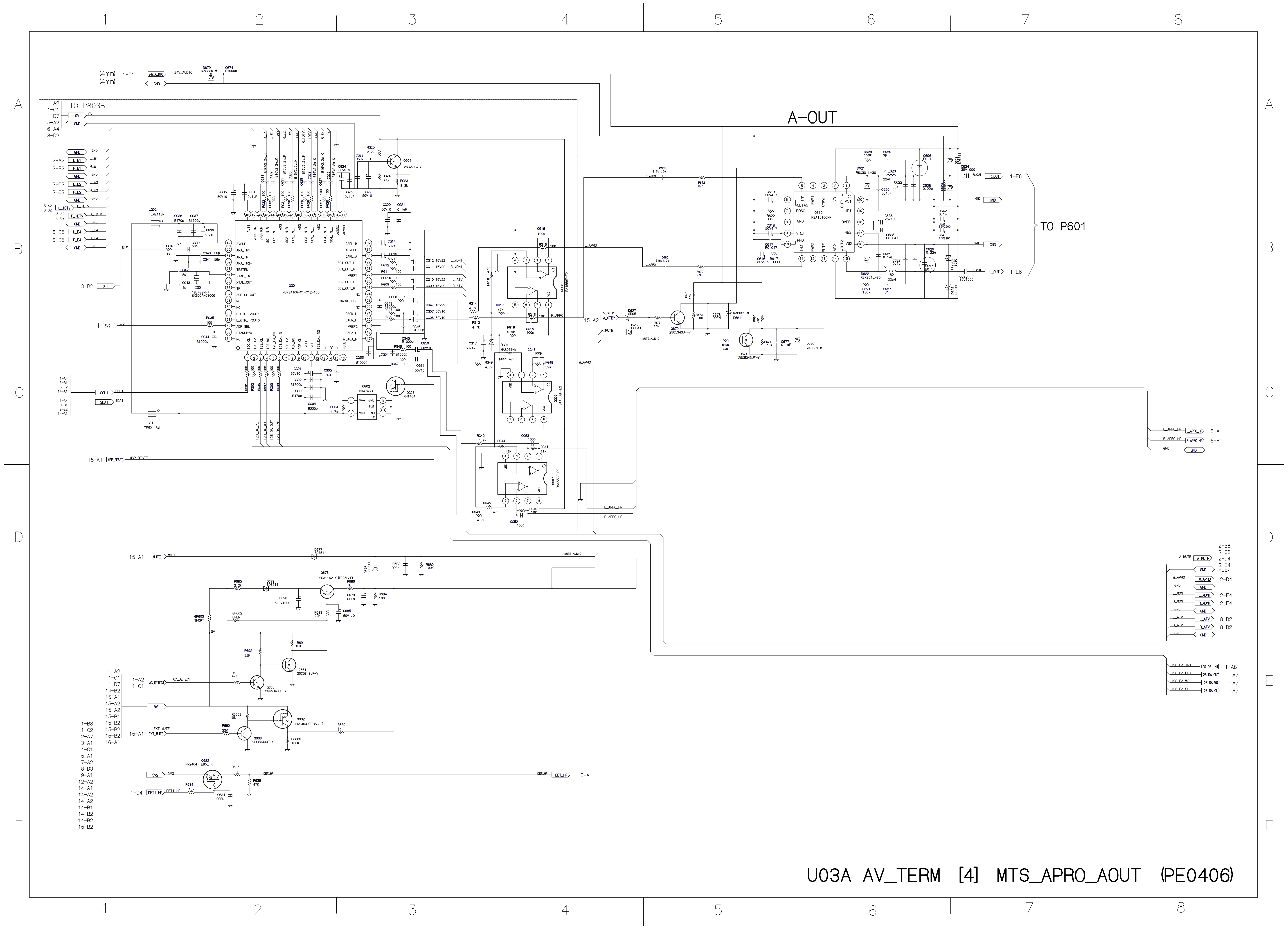
U03A AV_TERM [1] CONNECTOR (PE0406)


E1
E2
E3
PC-DSUB
Woofer OUT
Audio OUT
HDMI_PC_AUDIO

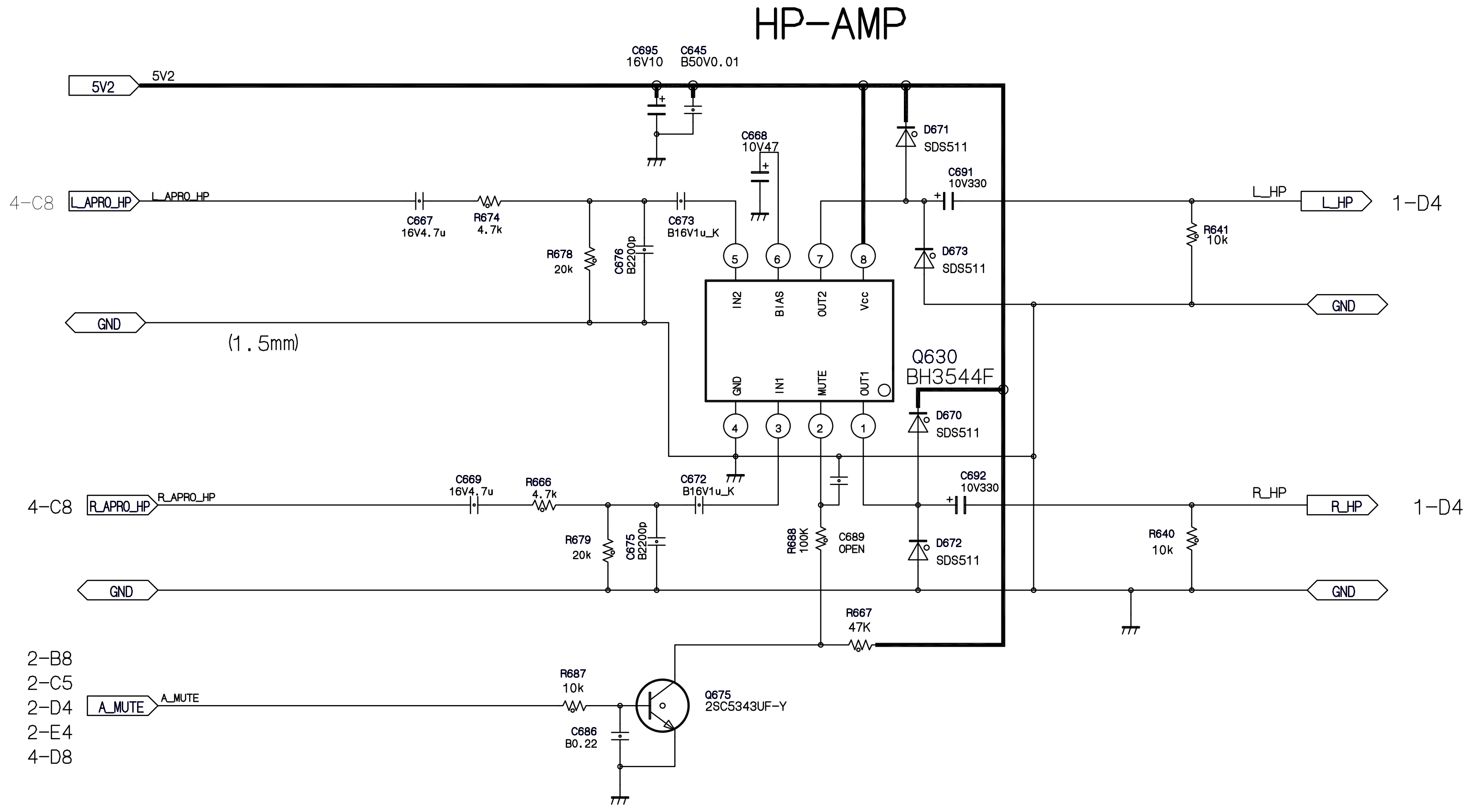
U03A AV_TERM [2] AV JACK (PE0406)

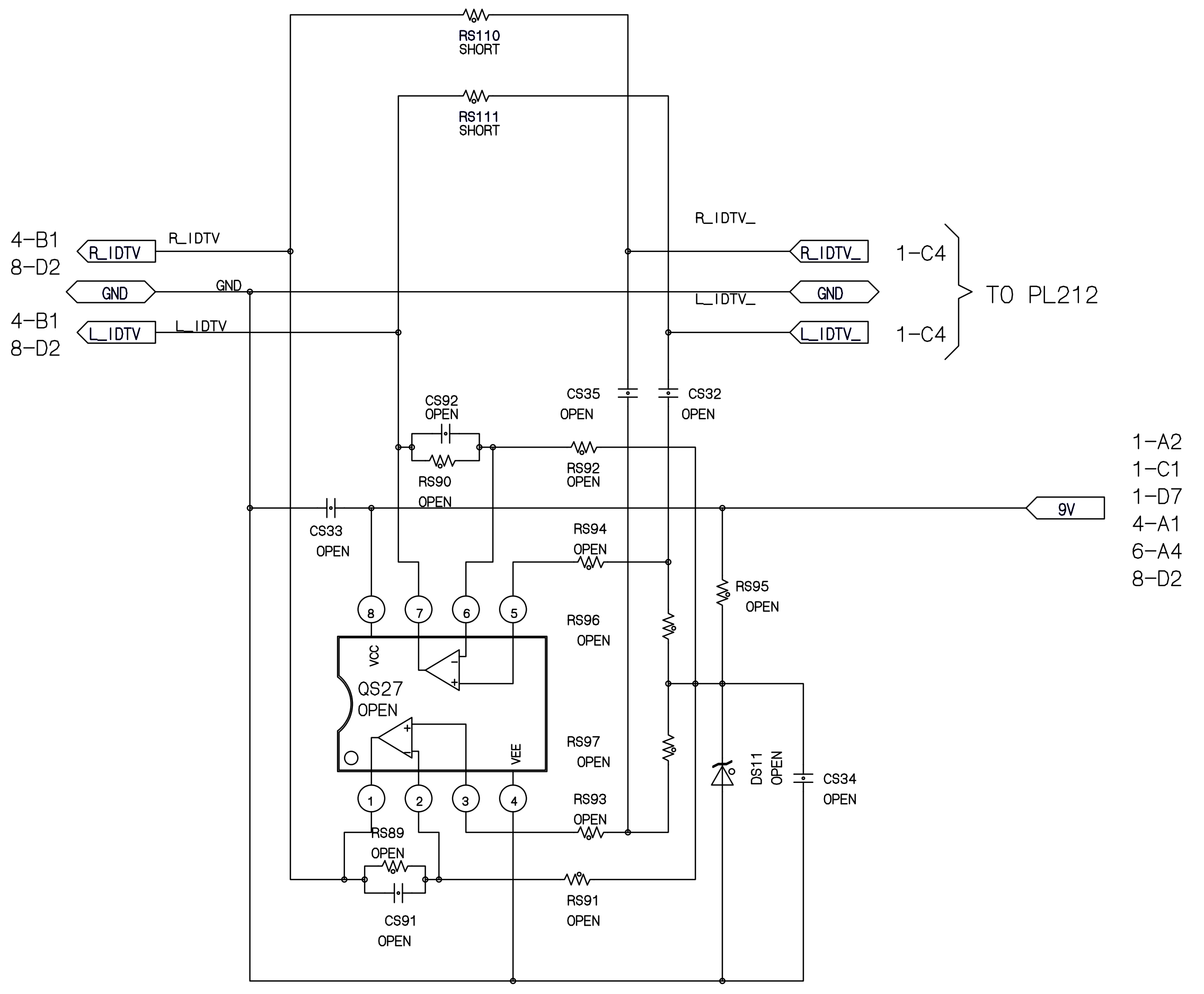

1
2
A
B
TO DIGITAL TUNER
H001
OPEN
V86A00003800
tuner_GND
BB
NC Active Anntena
NC
NC
+B
AUDIO OUT
SIF OUT
NC
SCL
SDA
RF AGC
VB
NC
BTL
NC
AFT OUT
VIDEO OUT
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
GND
To P516A (TUNER GND)
TUNER-GND
C112 B1000p
C110 B1000p
OPEN
C111
C101 B50V0.01
C116 OPEN
C114 33p
C115 33p
C113 OPEN
C106 B1000p
C103 B1000p
C191 OPEN
C107 OPEN
D101 OPEN
R167 100
L104 SHORT
L191 BK1608 HS102-T
Q102 OPEN
R112 OPEN
R115 OPEN
C119 OPEN
R111 OPEN
C108 OPEN
R113 OPEN
SCART_OUT_A
7-A2
GND
To PK05 (TP12)
TV_OUT
1-C8
3-A2
8-B2
9-B1
R114 SHORT
1-C8
3-A1
8-B2
9-B1
TV_OUT
GND
GND
GND
1-B8
1-C2
2-A7
4-C1
4-F1
5-A1
7-A2
8-D3
9-A1
12-A2
14-A1
14-A2
14-A2
14-B1
14-B2
14-B2
15-B2
1-C3
AA
C109 7L16V10u
5V2
L101 TLN3278AA
<360mA
C105 10V470 105°C
C102 10V470 105°C
C190 0.1uF
1-A4
4-C1
8-E2
14-A1
SCL1
SCL1
L103 SHORT
1-A4
4-C1
8-E2
14-A1
SDA1
SDA1
L102 SHORT
1-C1
32V
<1mA
32V
32V
C104 50V4.7
R103 100
Q101 2SC5343UF-Y
R104 10k
R105 27K
R165 OPEN
R163 OPEN
C164 B50V0.01
R168 OPEN
Q162 OPEN
C161 OPEN
Q161 OPEN
R169 SHORT
R166 OPEN
R161 OPEN
C163 OPEN
R162 OPEN
R164 OPEN
SIF OUT
C162 100p
R170 6.8K
GND
GND
SIF
GND
4-B1
AFT1
1-A8

U03A AV_TERM [3] TUNER (PE0406)

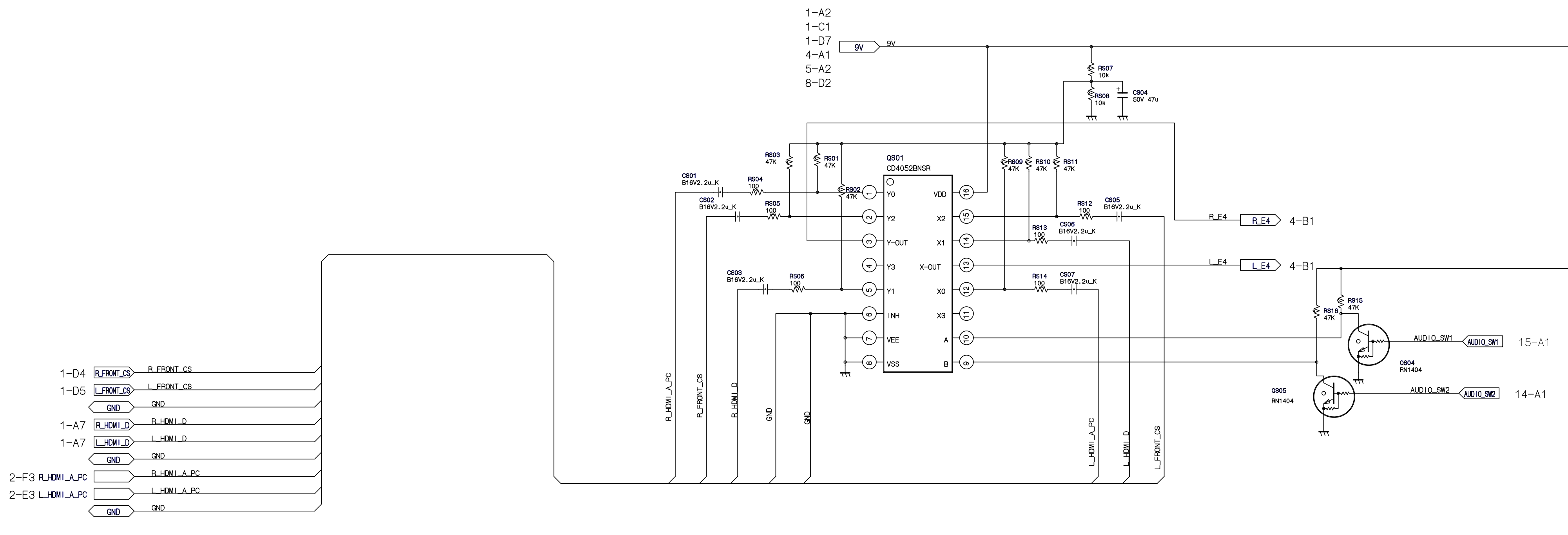

1
2
3
4
5
6
7
8
A
B
C
D
E
F
A-OUT
TO P803B
TO P601
1-C1
24V_AUDIO
GND
9V
L_E1
R_E1
L_E2
R_E2
L_IDTV
R_IDTV
L_E4
R_E4
SIF
SV2
SCL1
SDA1
MSP_RESET
QG01
MSP3410G-Q1-C12-100
AVSS
MONO_IN
VREFTOP
SC1_IN_R
SC1_IN_L
ASG
SC2_IN_R
SC2_IN_L
SC3_IN_R
SC3_IN_L
SC4_IN_R
SC4_IN_L
AGNDC
AHVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
TP
AUD_CL_OUT
NC
D_CTR_I/OUT1
D_CTR_I/OUT0
ADR_SEL
STANDBYQ
CAPL_M
AHVSUP
CAPL_A
SC1_OUT_L
SC1_OUT_R
VREF1
SC2_OUT_L
SC2_OUT_R
DACM_SUB
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
I2C_CL
I2C_DA
I2S_CL
I2S_WS
I2S_DA_OUT
I2S_DA_IN1
ADR_DA
ADR_WS
ADR_CL
DVSUP
DVSS
I2S_DA_IN2
RESETQ
XG01
18.432MHz
EXS00A-03006
QG02
BD4746G
Vout
GND
SUB
VCC
QG03
RN1404
QG04
2SC2712, Y
L_MONI
R_MONI
L_ATV
R_ATV
L_APRO
R_APRO
L_APRO_HP
R_APRO_HP
Q610
R2A15106NP
IN1
PWM1
STBYL
VD1
OUT1
VS1
CBIAS
ROSC
VREF
PROT
HB1
DVDD
HB2
VS2
IN2
PWM2
MUTEL
VD2
OUT2
D621
RSX301L-30
L620
22uH
D622
RSX301L-30
L621
22uH
R_OUT
L_OUT
1-E6
Q671
2SC5343UF-Y
Q672
2SC5343UF-Y
D680
MA8051-M
D681
MA8051-M
15-A2
A_STBY
A_MUTE
MUTE_AUDIO
5-A1
15-A1
MUTE
AC_DETECT
SV1
EXT_MUTE
DET1_HP
DET_HP
Q673
2SA1162-Y TE85L, F)
Q680
2SC5343UF-Y
Q681
2SC5343UF-Y
Q682
RN2404 TE85L, F)
Q683
2SC5343UF-Y
A_MUTE
M_APRO
L_MONI
R_MONI
L_ATV
R_ATV
I2S_DA_IN1
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
1-A8
1-A7

U03A AV_TERM [4] MTS_APRO_AOUT (PE0406)

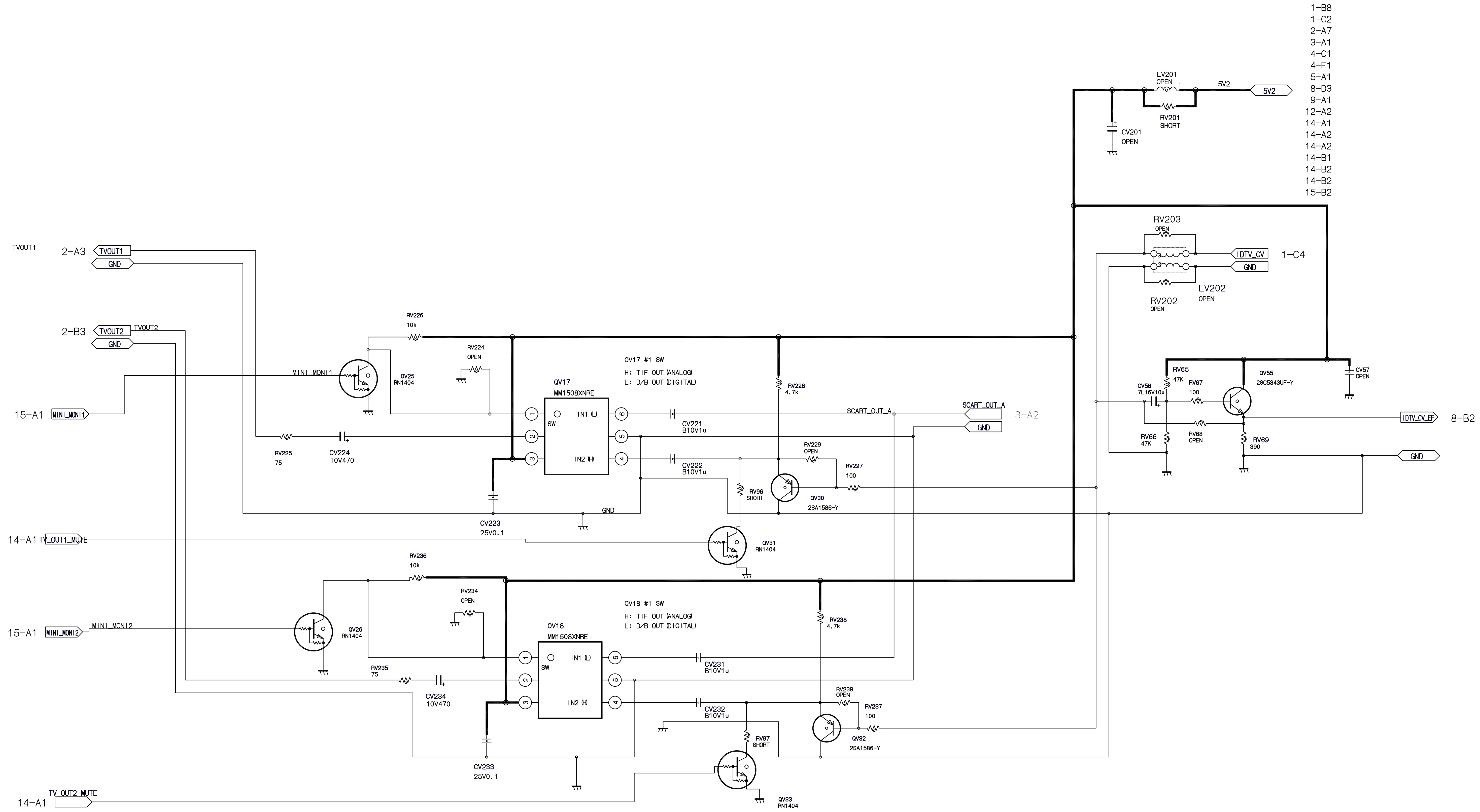

HP-AMP
5V2
5V2
C695
16V10
C645
B50V0.01
C668
10V47
D671
SDS511
C691
10V330
4-C8
L_APRO_HP
L_APRO_HP
C667
16V4.7u
R674
4.7k
C673
B16V1u_K
R678
20k
C676
B2200p
D673
SDS511
L_HP
L_HP
1-D4
R641
10k
GND
GND
(1.5mm)
IN2
BIAS
OUT2
Vcc
GND
IN1
MUTE
OUT1
5
6
7
8
4
3
2
1
Q630
BH3544F
D670
SDS511
C669
16V4.7u
R666
4.7k
C672
B16V1u_K
C692
10V330
4-C8
R_APRO_HP
R_APRO_HP
R_HP
R_HP
1-D4
R679
20k
C675
B2200p
R688
100K
C689
OPEN
D672
SDS511
R640
10k
GND
GND
R667
47K
2-B8
2-C5
2-D4
2-E4
4-D8
A_MUTE
A_MUTE
R687
10k
C686
B0.22
Q675
2SC5343UF-Y


RS110
SHORT
RS111
SHORT
4-B1
8-D2
R_IDTV
R_IDTV
GND
GND
4-B1
8-D2
L_IDTV
L_IDTV
R_IDTV_
R_IDTV_
GND
L_IDTV_
L_IDTV_
1-C4
1-C4
TO PL212
CS35
OPEN
CS32
OPEN
CS92
OPEN
RS90
OPEN
RS92
OPEN
CS33
OPEN
9V
1-A2
1-C1
1-D7
4-A1
6-A4
8-D2
RS94
OPEN
RS95
OPEN
RS96
OPEN
8
7
6
5
VCC
QS27
OPEN
VEE
1
2
3
4
RS97
OPEN
DS11
OPEN
CS34
OPEN
RS93
OPEN
RS89
OPEN
RS91
OPEN
CS91
OPEN

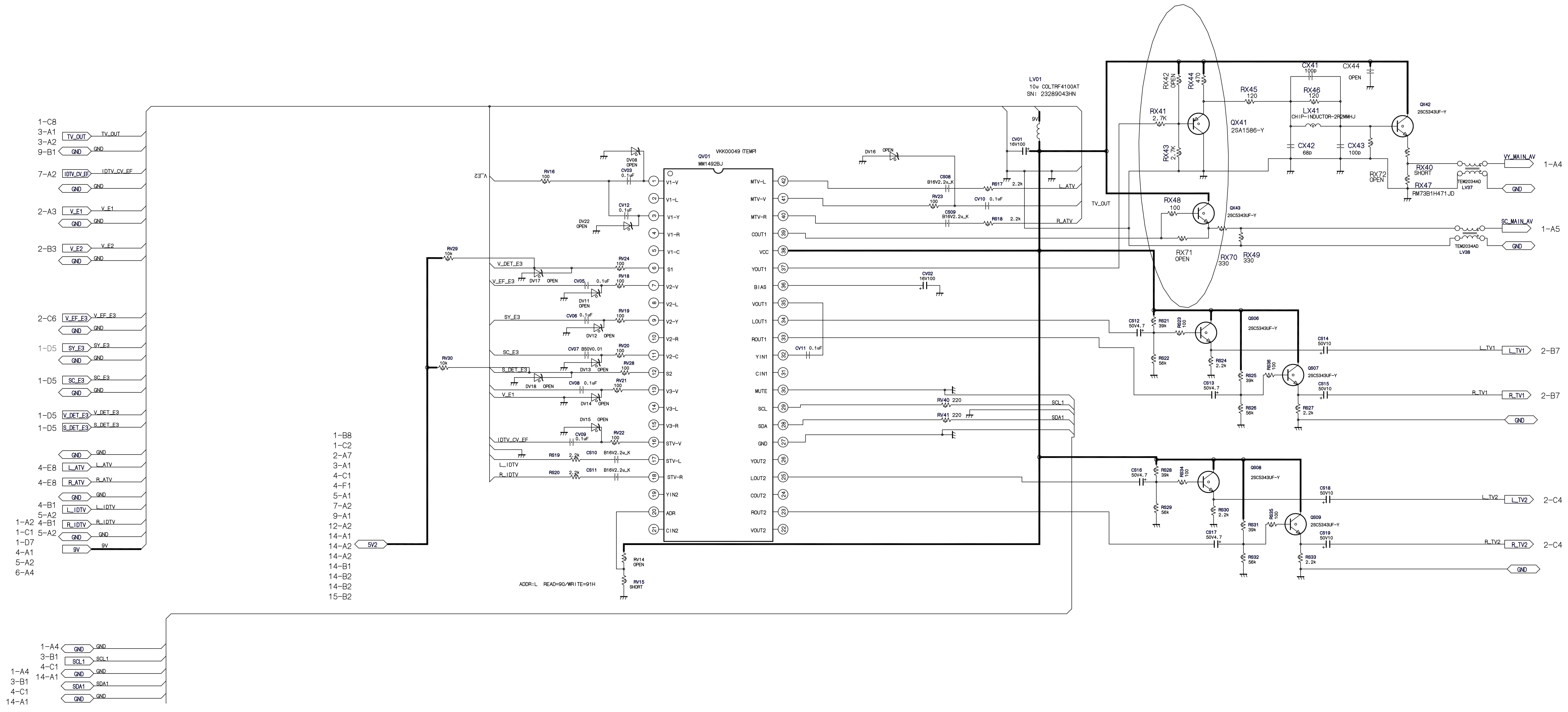
U03A AV_TERM [5] EU_DIGITAL_RECEIVE CIRCUIT HEADPHONE_AMP (PE0406)


1-A2
1-C1
1-D7
4-A1
5-A2
8-D2
9V
9V
RS07
10k
RS08
10k
CS04
50V 47u
RS03
47K
RS01
47K
CS01
B16V2.2u_K
RS04
100
RS02
47K
CS02
B16V2.2u_K
RS05
100
CS03
B16V2.2u_K
RS06
100
QS01
CD4052BNSR
Y0
Y2
Y-OUT
Y3
Y1
INH
VEE
VSS
VDD
X2
X1
X-OUT
X0
X3
A
B
RS09
47K
RS10
47K
RS11
47K
RS12
100
CS05
B16V2.2u_K
RS13
100
CS06
B16V2.2u_K
RS14
100
CS07
B16V2.2u_K
R_E4
R_E4
4-B1
L_E4
L_E4
4-B1
RS15
47K
RS16
47K
AUDIO_SW1
AUDIO_SW1
15-A1
QS04
RN1404
QS05
RN1404
AUDIO_SW2
AUDIO_SW2
14-A1
R_HDMI_A_PC
R_FRONT_CS
R_HDMI_D
GND
GND
L_HDMI_A_PC
L_HDMI_D
L_FRONT_CS
1-D4
R_FRONT_CS
R_FRONT_CS
1-D5
L_FRONT_CS
L_FRONT_CS
GND
GND
1-A7
R_HDMI_D
R_HDMI_D
1-A7
L_HDMI_D
L_HDMI_D
GND
GND
2-F3 R_HDMI_A_PC
R_HDMI_A_PC
2-E3 L_HDMI_A_PC
L_HDMI_A_PC
GND
GND

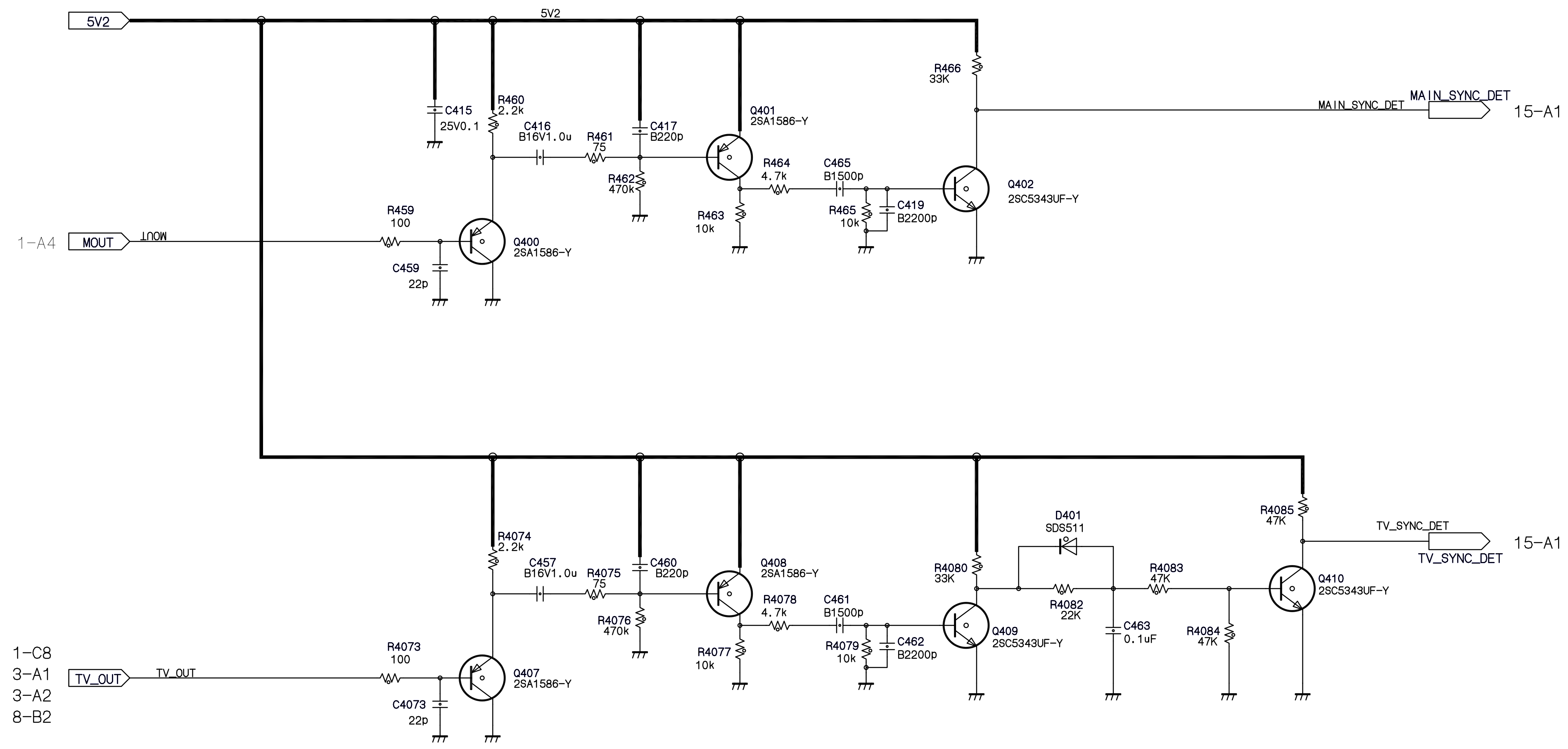
U03A AV_TERM [6] AUDIO_SW (PE0406)


1-B8
1-C2
2-A7
3-A1
4-C1
4-F1
5-A1
8-D3
9-A1
12-A2
14-A1
14-A2
14-A2
14-B1
14-B2
14-B2
15-B2
LV201
OPEN
5V2
5V2
RV201
SHORT
CV201
OPEN
RV203
OPEN
IDTV_CV
1-C4
GND
LV202
OPEN
RV202
OPEN
TVOUT1
2-A3
TVOUT1
GND
2-B3
TVOUT2
TVOUT2
GND
RV226
10k
RV224
OPEN
MINI_MONI1
QV25
RN1404
15-A1
MINI_MONI1
QV17 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
QV17
MM1508XNRE
SW
IN1 (L)
IN2 (H)
RV225
75
CV224
10V470
CV221
B10V1u
CV222
B10V1u
CV223
25V0.1
GND
RV228
4.7k
SCART_OUT_A
SCART_OUT_A
3-A2
GND
RV229
OPEN
RV227
100
RV96
SHORT
QV30
2SA1586-Y
14-A1
TV_OUT1_MUTE
QV31
RN1404
RV65
47K
RV67
100
CV56
7L16V10u
QV55
2SC5343UF-Y
CV57
OPEN
IDTV_CV_EF
8-B2
RV66
47K
RV68
OPEN
RV69
390
GND
RV236
10k
RV234
OPEN
15-A1
MINI_MONI2
MINI_MONI2
QV26
RN1404
QV18 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
QV18
MM1508XNRE
SW
IN1 (L)
IN2 (H)
RV235
75
CV234
10V470
CV231
B10V1u
CV232
B10V1u
RV238
4.7k
RV239
OPEN
RV237
100
QV32
2SA1586-Y
RV97
SHORT
CV233
25V0.1
14-A1
TV_OUT2_MUTE
QV33
RN1404

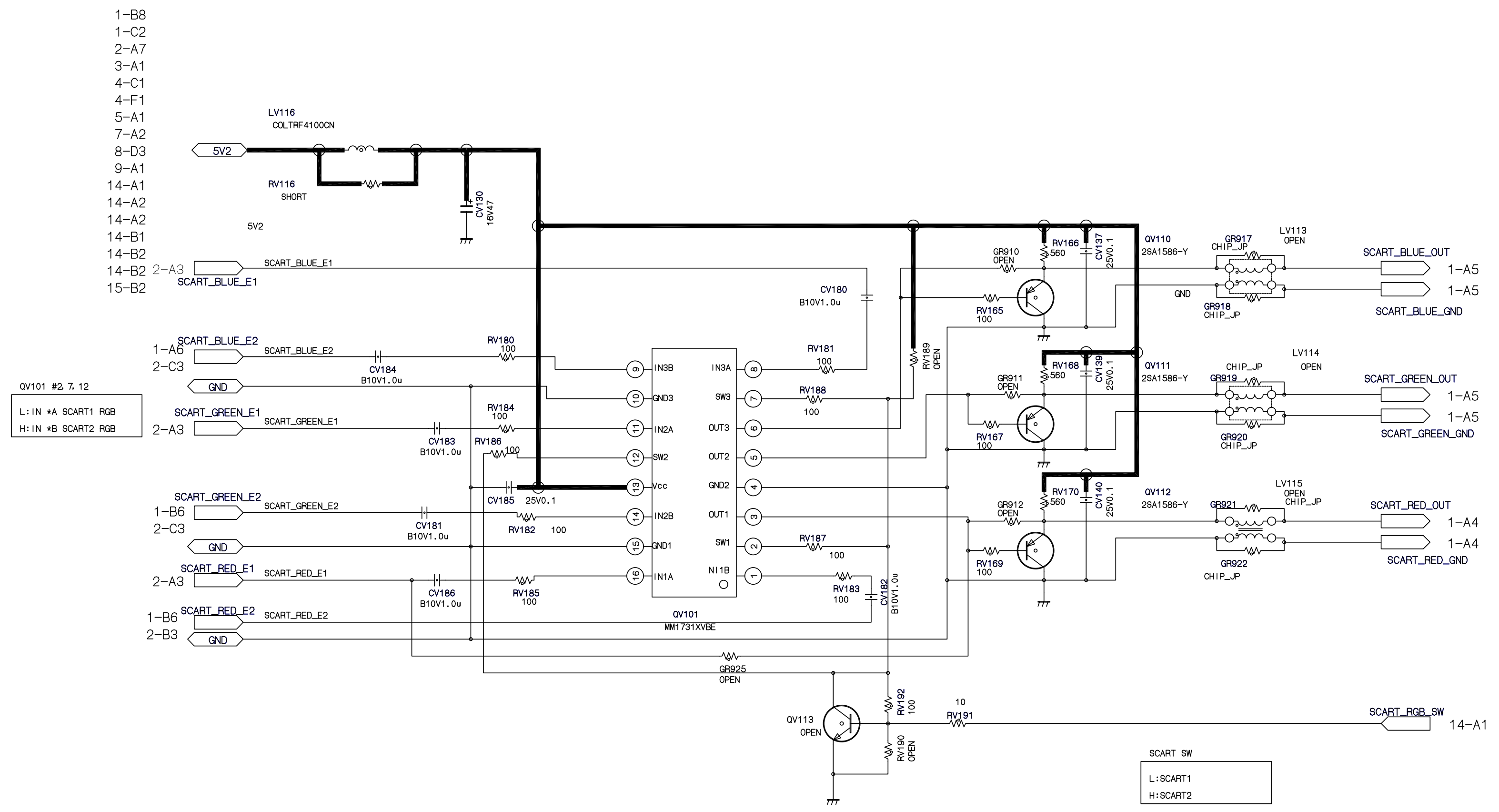
U03A AV_TERM [7] TV-OUT&MONI-OUT (PE0406)


RX42
RX44
RX45
RX46
LX41
CX41
CX44
RX41
2.7K
RX43
QX41
2SA1586-Y
CX42
CX43
RX48
100
RX71
OPEN
RX70
330
RX49
330
RX40
SHORT
RX47
RX72
OPEN
1-A4
1-A5
2-B7
2-B7
2-C4
2-C4
1-C8
3-A1
3-A2
9-B1
7-A2
2-A3
2-B3
2-C6
1-D5
1-D5
1-D5
1-D5
4-E8
4-E8
4-B1
5-A2
1-A2
1-C1
1-D7
4-A1
5-A2
6-A4
1-B8
1-C2
2-A7
3-A1
4-C1
4-F1
5-A1
7-A2
9-A1
12-A2
14-A1
14-A2
14-A2
14-B1
14-B2
14-B2
15-B2
1-A4
3-B1
1-A4
3-B1
4-C1
14-A1
4-C1
14-A1

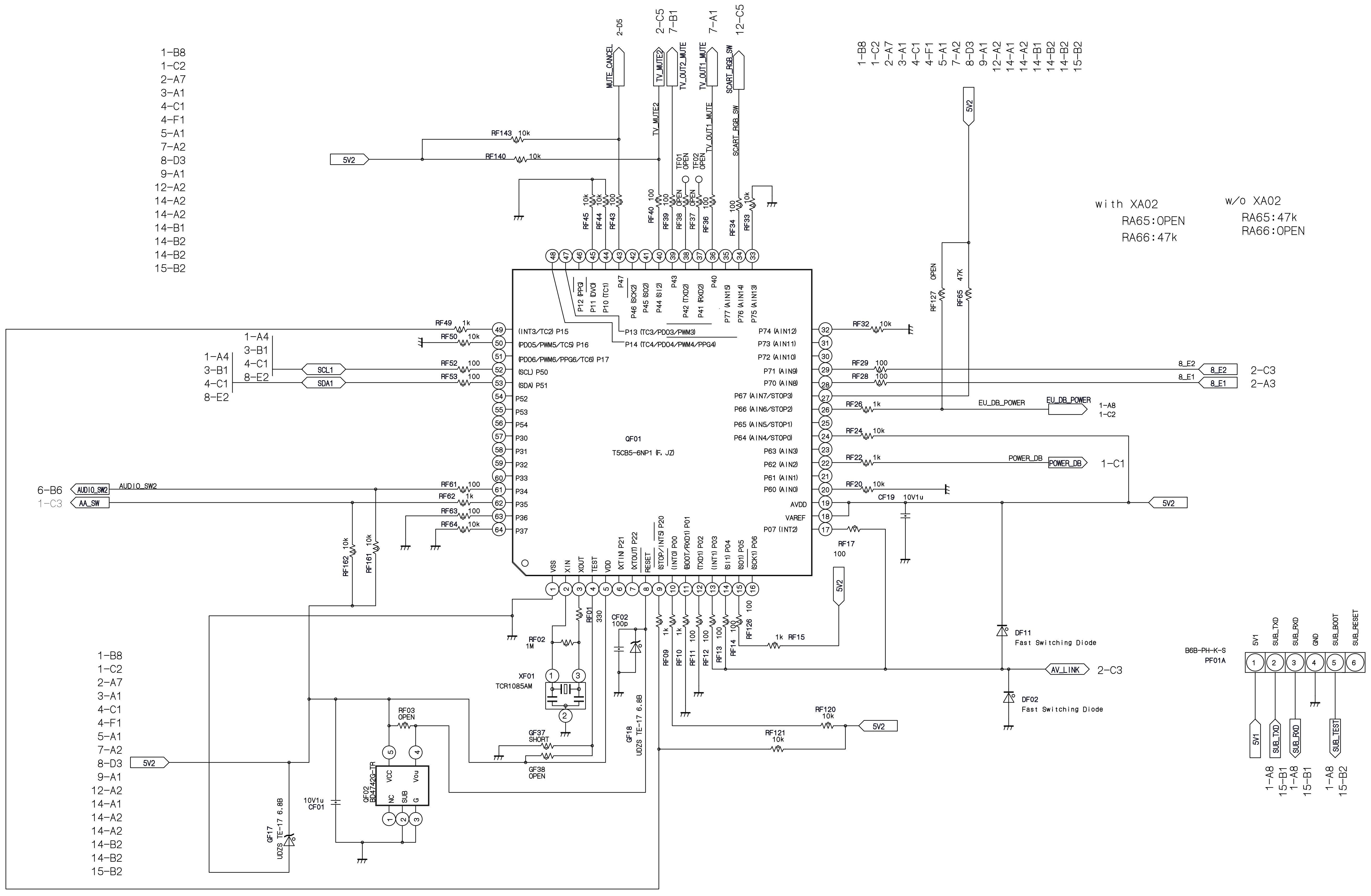
U03A AV_TERM [8] AV_SW (PE0406)


5V2
5V2
1-A4
MOUT
MOUT
C415
25V0.1
R460
2.2k
C416
B16V1.0u
R461
75
C417
B220p
R462
470k
Q401
2SA1586-Y
R459
100
C459
22p
Q400
2SA1586-Y
R463
10k
R464
4.7k
C465
B1500p
R465
10k
C419
B2200p
Q402
2SC5343UF-Y
R466
33K
MAIN_SYNC_DET
MAIN_SYNC_DET
15-A1
1-C8
3-A1
3-A2
8-B2
TV_OUT
TV_OUT
R4073
100
C4073
22p
Q407
2SA1586-Y
R4074
2.2k
C457
B16V1.0u
R4075
75
R4076
470k
C460
B220p
Q408
2SA1586-Y
R4077
10k
R4078
4.7k
C461
B1500p
R4079
10k
C462
B2200p
Q409
2SC5343UF-Y
R4080
33K
D401
SDS511
R4082
22K
C463
0.1uF
R4083
47K
R4084
47K
R4085
47K
Q410
2SC5343UF-Y
TV_SYNC_DET
TV_SYNC_DET
15-A1

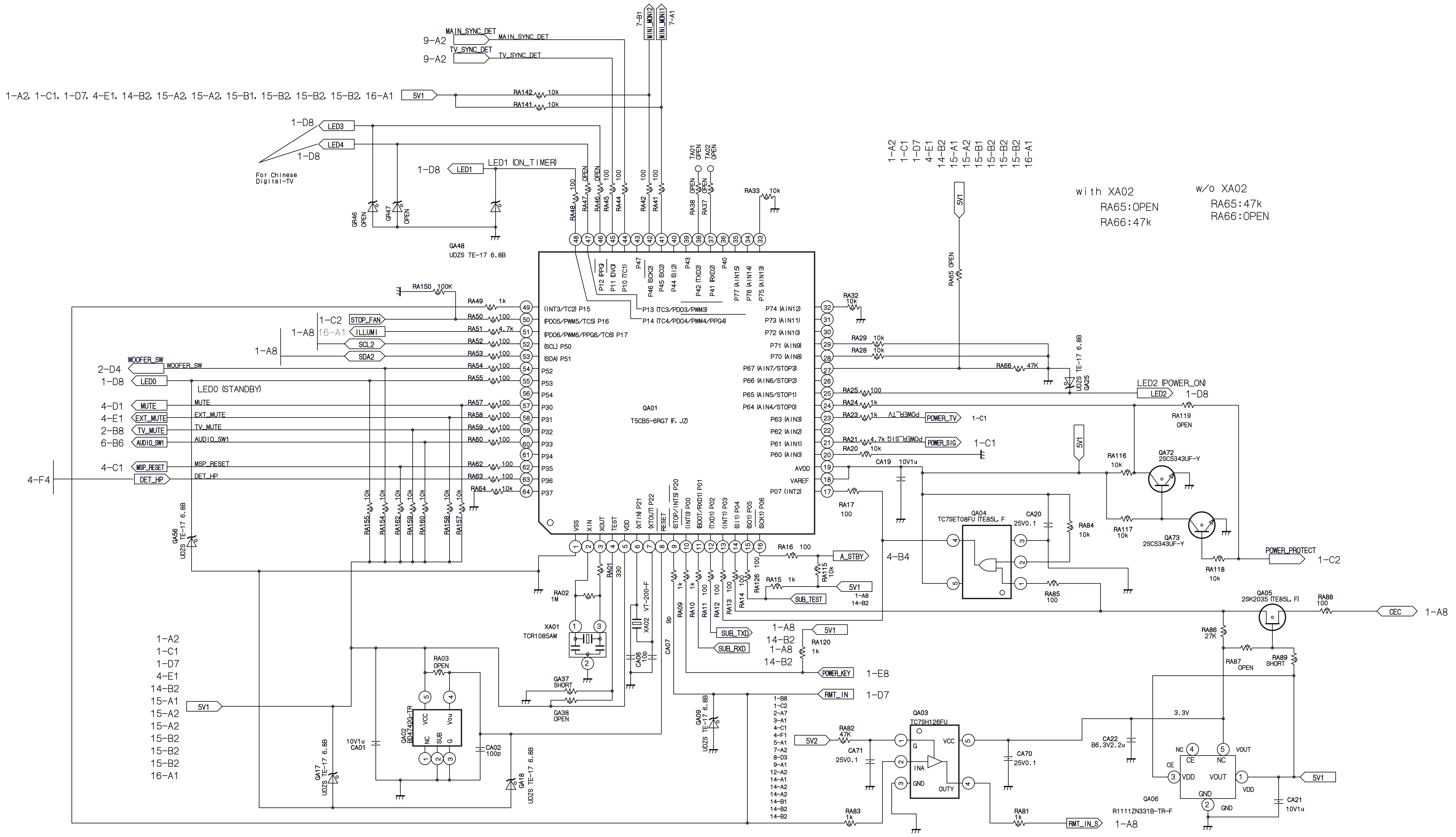
U03A AV_TERM [9] SYNC_DET (PE0406)


1-B8
1-C2
2-A7
3-A1
4-C1
4-F1
5-A1
7-A2
8-D3
9-A1
14-A1
14-A2
14-A2
14-B1
14-B2
14-B2
15-B2
LV116
COLTRF4100CN
5V2
RV116
SHORT
5V2
CV130
16V47
2-A3
SCART_BLUE_E1
SCART_BLUE_E1
1-A6
2-C3
SCART_BLUE_E2
SCART_BLUE_E2
CV184
B10V1.0u
RV180
100
GND
QV101 #2, 7, 12
L:IN *A SCART1 RGB
H:IN *B SCART2 RGB
SCART_GREEN_E1
2-A3
SCART_GREEN_E1
CV183
B10V1.0u
RV184
100
RV186
100
CV185
25V0.1
SCART_GREEN_E2
1-B6
2-C3
SCART_GREEN_E2
CV181
B10V1.0u
RV182
100
GND
SCART_RED_E1
2-A3
SCART_RED_E1
CV186
B10V1.0u
RV185
100
SCART_RED_E2
1-B6
2-B3
SCART_RED_E2
GND
IN3B
GND3
IN2A
SW2
Vcc
IN2B
GND1
IN1A
IN3A
SW3
OUT3
OUT2
GND2
OUT1
SW1
NI1B
QV101
MM1731XVBE
CV180
B10V1.0u
RV181
100
RV188
100
RV187
100
RV183
100
CV182
B10V1.0u
RV189
OPEN
GR925
OPEN
QV113
OPEN
RV192
100
RV190
OPEN
10
RV191
SCART_RGB_SW
14-A1
SCART SW
L:SCART1
H:SCART2
GR910
OPEN
RV165
100
RV166
560
CV137
25V0.1
QV110
2SA1586-Y
GR917
CHIP_JP
LV113
OPEN
GND
GR918
CHIP_JP
SCART_BLUE_OUT
1-A5
1-A5
SCART_BLUE_GND
GR911
OPEN
RV167
100
RV168
560
CV139
25V0.1
QV111
2SA1586-Y
CHIP_JP
GR919
LV114
OPEN
GR920
CHIP_JP
SCART_GREEN_OUT
1-A5
1-A5
SCART_GREEN_GND
GR912
OPEN
RV169
100
RV170
560
CV140
25V0.1
QV112
2SA1586-Y
GR921
LV115
OPEN
CHIP_JP
GR922
CHIP_JP
SCART_RED_OUT
1-A4
1-A4
SCART_RED_GND

U03A AV_TERM [12] SCART SW (PE0406)

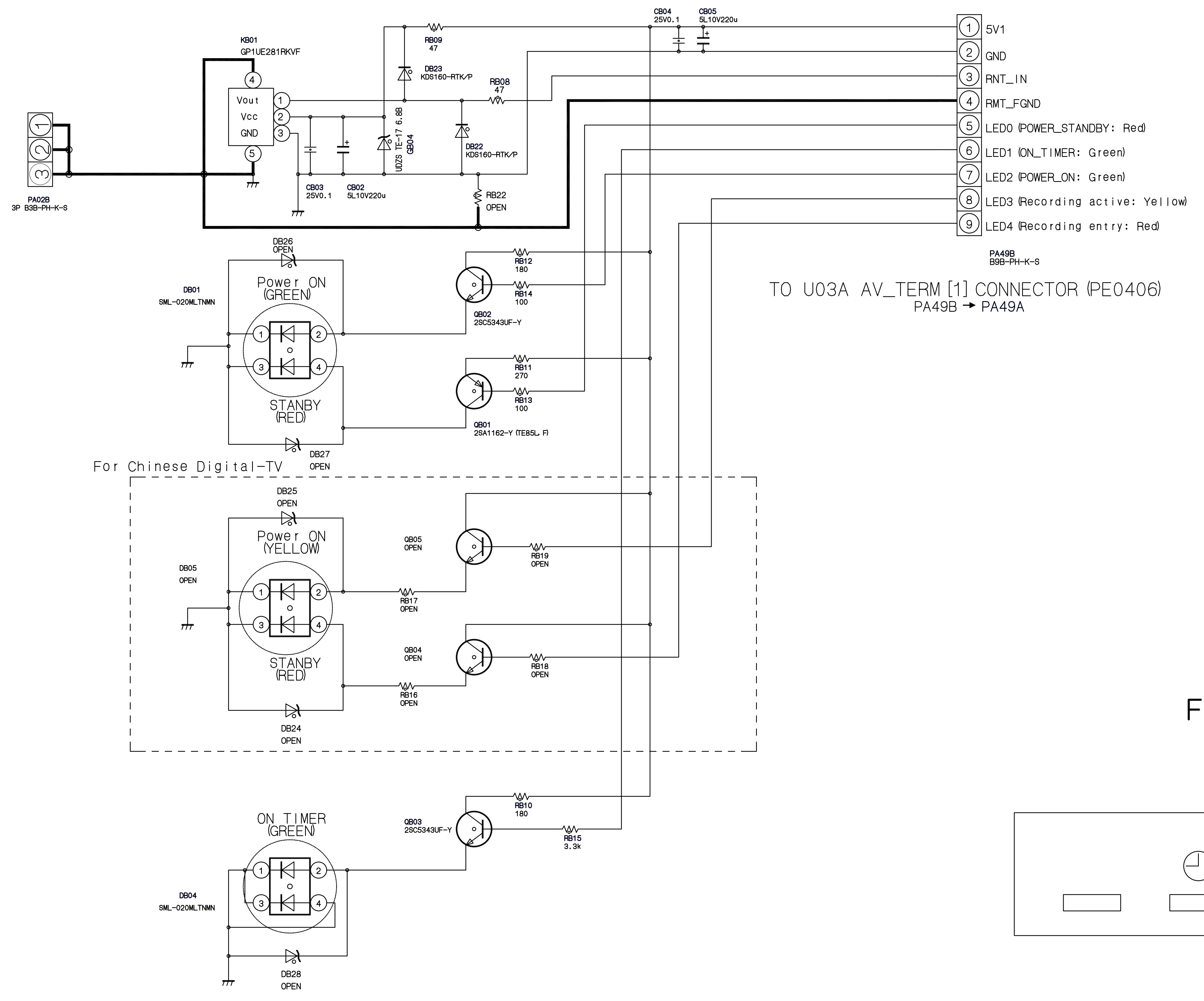

QF01
TSC85-6NP1 (FL JZ)
MUTE_CANCEL
TV_MUTE2
TV_OUT2_MUTE
TV_OUT1_MUTE
SCART_RGB_SW
5V2
SCL1
SDA1
AUDIO_SW2
AA_SW
8_E2
8_E1
EU_DB_POWER
POWER_DB
AV_LINK
XF01
TCR1085AM
QF11
Fast Switching Diode
QF02
Fast Switching Diode
B6B-PH-K-S
PF01A
SUB_TXD
SUB_RXD
GND
SUB_BOOT
SUB_RESET
SUB_TEST
with XA02
RA65:OPEN
RA66:47k
w/o XA02
RA65:47k
RA66:OPEN
2-C3
2-A3
1-C1
6-B6
1-C3
1-A4
3-B1
4-C1
8-E2
1-A8
15-B1
15-B2
1
2
A
B

U03A AV_TERM [14] AV-Link Micoro GPIO for Scart (PE0406)



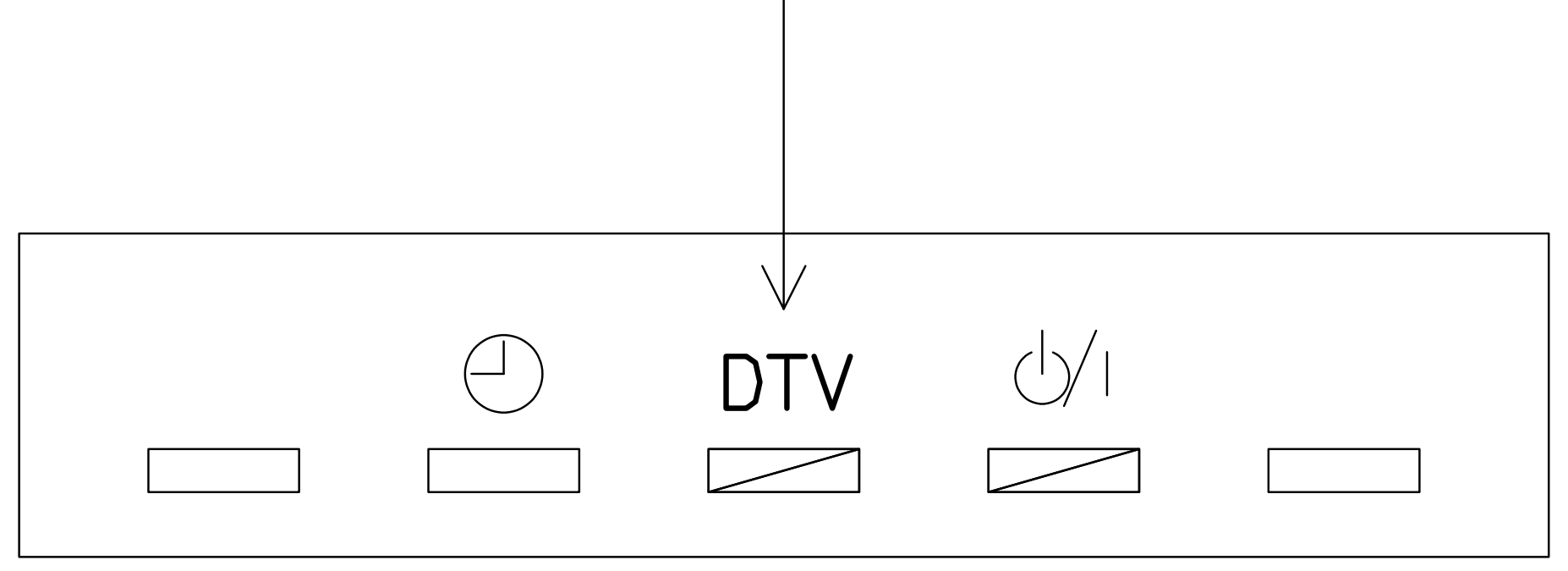
MAIN_SYNC_DET
TV_SYNC_DET
9-A2
1-A2, 1-C1, 1-D7, 4-E1, 14-B2, 15-A2, 15-A2, 15-B1, 15-B2, 15-B2, 15-B2, 16-A1
SV1
RA142 10k
RA141 10k
LED3
LED4
1-D8
For Chinese Digital-TV
LED1 (ON_TIMER)
GA48 UDZS TE-17 6.8B
with XA02
RA65:OPEN
RA66:47k
w/o XA02
RA65:47k
RA66:OPEN
QA01
T5CB5-6RG7 (F, J2)
STOP_FAN
ILLUMI
SCL2
SDA2
WOOFER_SW
LED0 (STANDBY)
MUTE
EXT_MUTE
TV_MUTE
AUDIO_SW1
MSP_RESET
DET_HP
2-D4
1-D8
4-D1
4-E1
2-B8
6-B6
4-C1
4-F4
1-C2
1-A8
LED2 (POWER_ON)
POWER_TV
POWER_SIG
1-C1
QA72 2SC5343UF-Y
QA73 2SC5343UF-Y
POWER_PROTECT
QA04 TC7SET08FU (TE85L, F)
A_STBY
4-B4
SUB_TEST
SUB_TXD
SUB_RXD
POWER_KEY
1-E8
RMT_IN
1-D7
QA05 2SK2035 (TE85L, F)
CEC
1-A8
XA01 TCR1085AM
QA02
QA03 TC7SH126FU
SV2
3.3V
QA06 R1111ZN331B-TR-F
RMT_IN_S
SV1

U03A AV_TERM [15] STANDBY MICRO with HDMI CEC (PE0406)

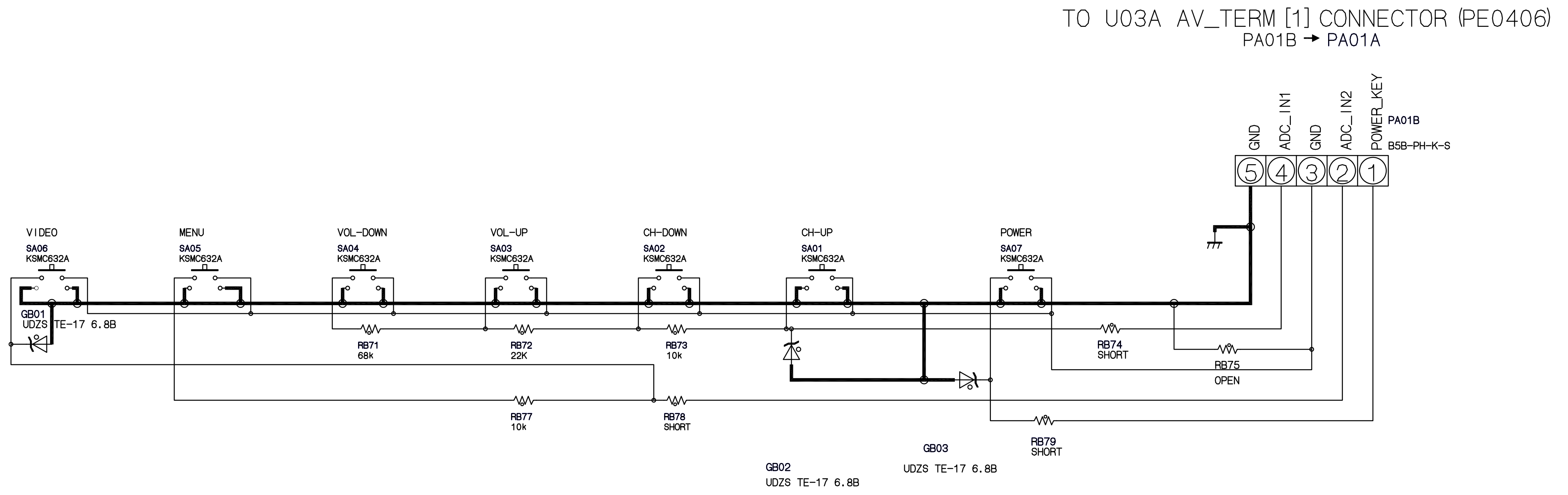

KB01
GP1UE281RKVF
Vout
Vcc
GND
PA02B
3P B3B-PH-K-S
CB03
25V0.1
CB02
5L10V220u
UDZS TE-17 6.8B
GB04
RB09
47
DB23
KDS160-RTK/P
RB08
47
DB22
KDS160-RTK/P
RB22
OPEN
CB04
25V0.1
CB05
5L10V220u
5V1
GND
RNT_IN
RMT_FGND
LED0 (POWER_STANDBY: Red)
LED1 (ON_TIMER: Green)
LED2 (POWER_ON: Green)
LED3 (Recording active: Yellow)
LED4 (Recording entry: Red)
PA49B
B9B-PH-K-S
DB26
OPEN
DB01
SML-020MLTNMN
Power ON
(GREEN)
STANBY
(RED)
DB27
OPEN
RB12
180
RB14
100
QB02
2SC5343UF-Y
RB11
270
RB13
100
QB01
2SA1162-Y (TE85L, F)
For Chinese Digital-TV
DB25
OPEN
DB05
OPEN
Power ON
(YELLOW)
STANBY
(RED)
DB24
OPEN
QB05
OPEN
RB19
OPEN
RB17
OPEN
QB04
OPEN
RB18
OPEN
RB16
OPEN
ON TIMER
(GREEN)
DB04
SML-020MLTNMN
DB28
OPEN
QB03
2SC5343UF-Y
RB10
180
RB15
3.3k

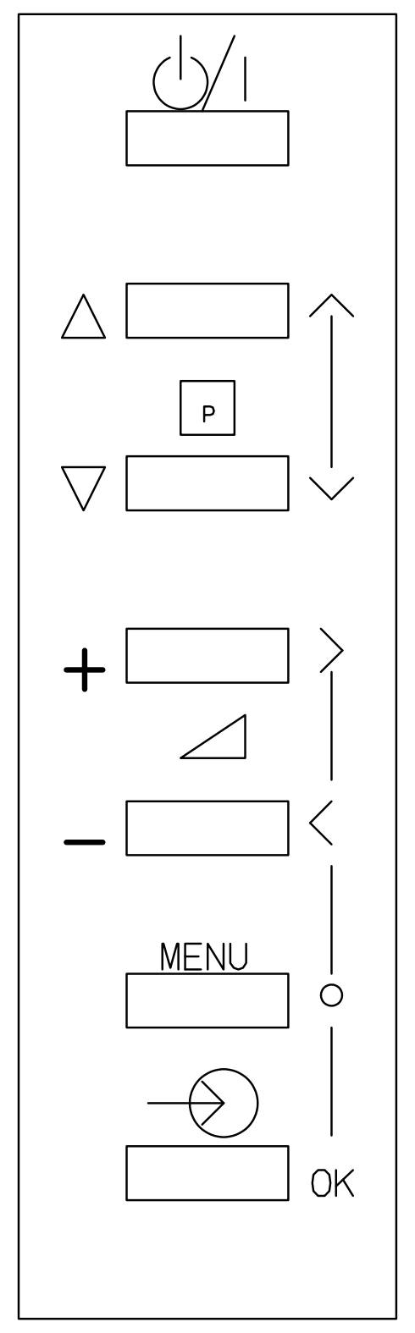
TO U03A AV_TERM [1] CONNECTOR (PE0406)
PA49B → PA49A

For Chinese Digital-TV

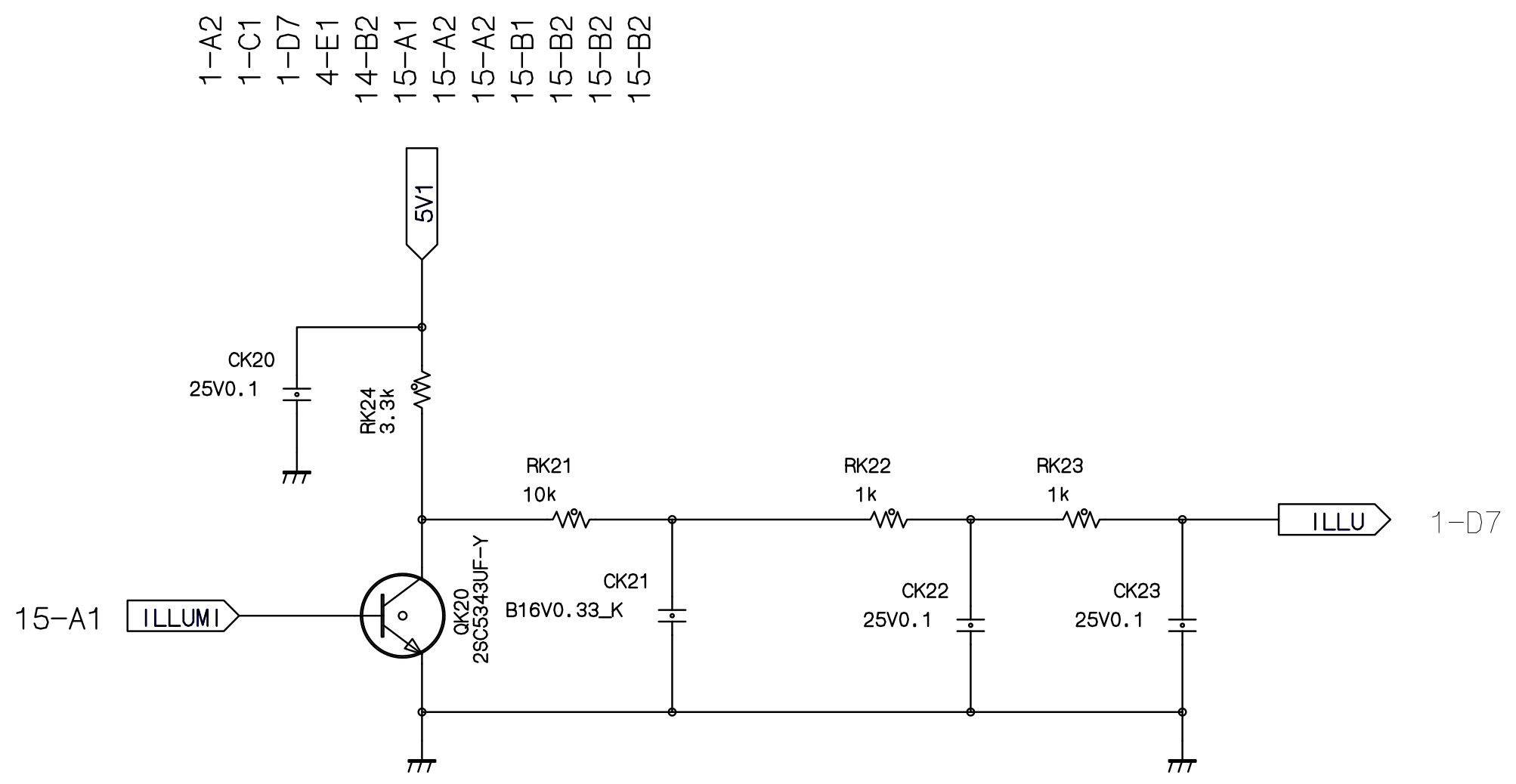


U03B LED [18] LED (PE0406)

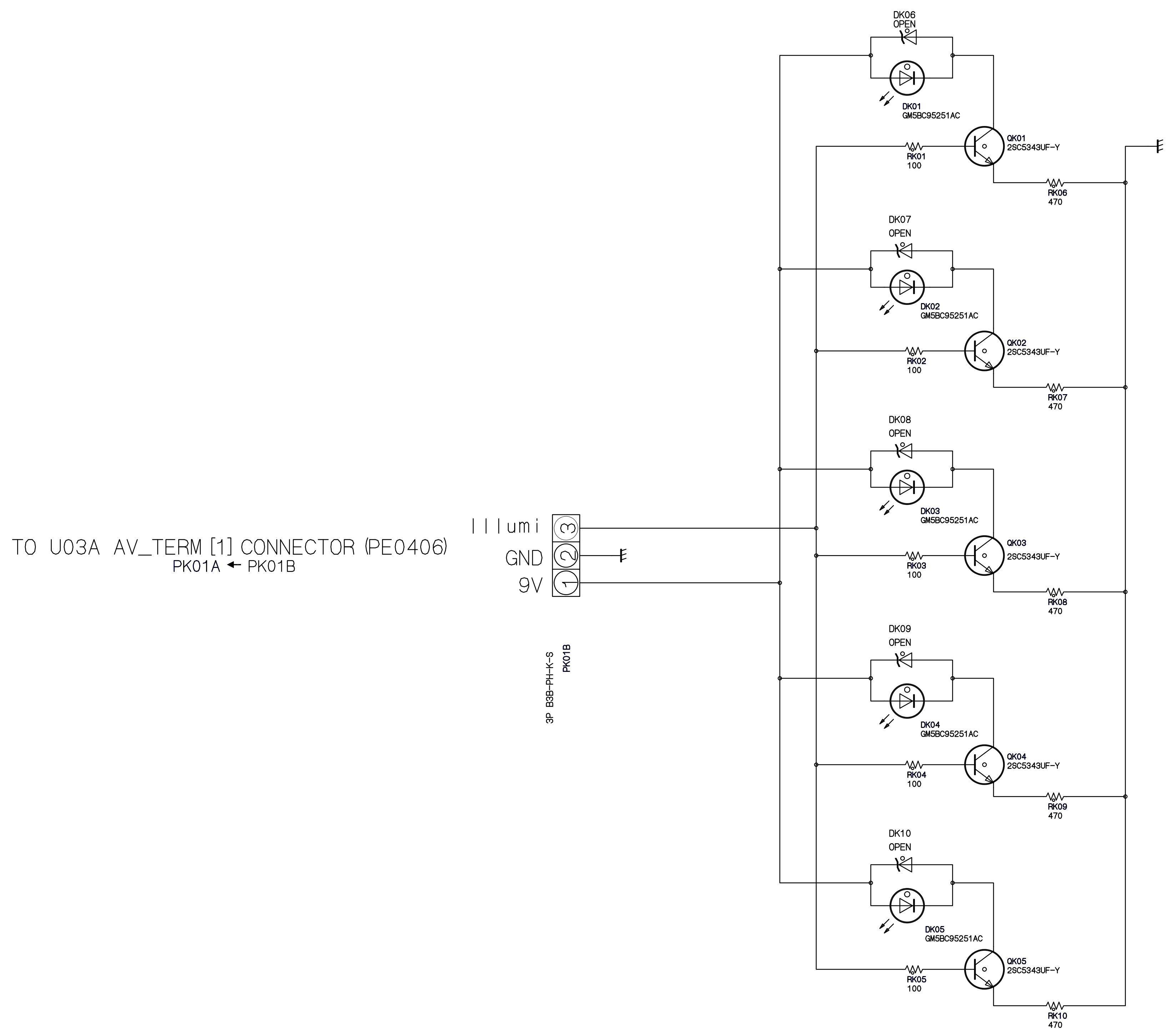

TO U03A AV_TERM [1] CONNECTOR (PE0406)
PA01B → PA01A
GND
ADC_IN1
GND
ADC_IN2
POWER_KEY
PA01B
B5B-PH-K-S
5
4
3
2
1
VIDEO
SA06
KSMC632A
MENU
SA05
KSMC632A
VOL-DOWN
SA04
KSMC632A
VOL-UP
SA03
KSMC632A
CH-DOWN
SA02
KSMC632A
CH-UP
SA01
KSMC632A
POWER
SA07
KSMC632A
GB01
UDZS TE-17 6.8B
RB71
68k
RB72
22K
RB73
10k
RB74
SHORT
RB75
OPEN
RB77
10k
RB78
SHORT
RB79
SHORT
GB02
UDZS TE-17 6.8B
GB03
UDZS TE-17 6.8B



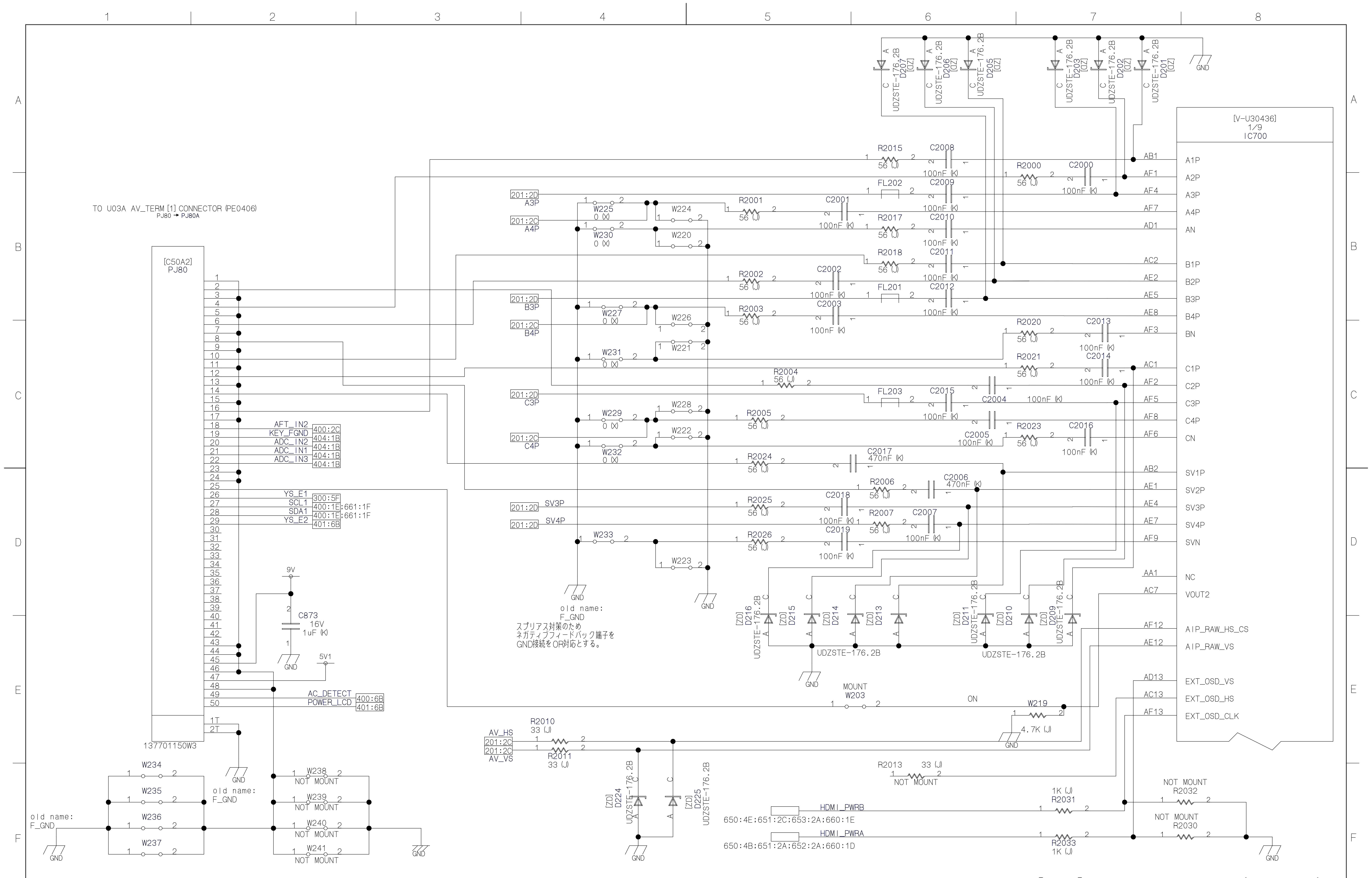
U03C KEY [17] KEY (PE0406)


1-A2
1-C1
1-D7
4-E1
14-B2
15-A1
15-A2
15-A2
15-B1
15-B2
15-B2
15-B2
5V1
CK20
25V0.1
RK24
3.3k
RK21
10k
RK22
1k
RK23
1k
ILLU
1-D7
15-A1
ILLUMI
QK20
2SC5343UF-Y
CK21
B16V0.33_K
CK22
25V0.1
CK23
25V0.1

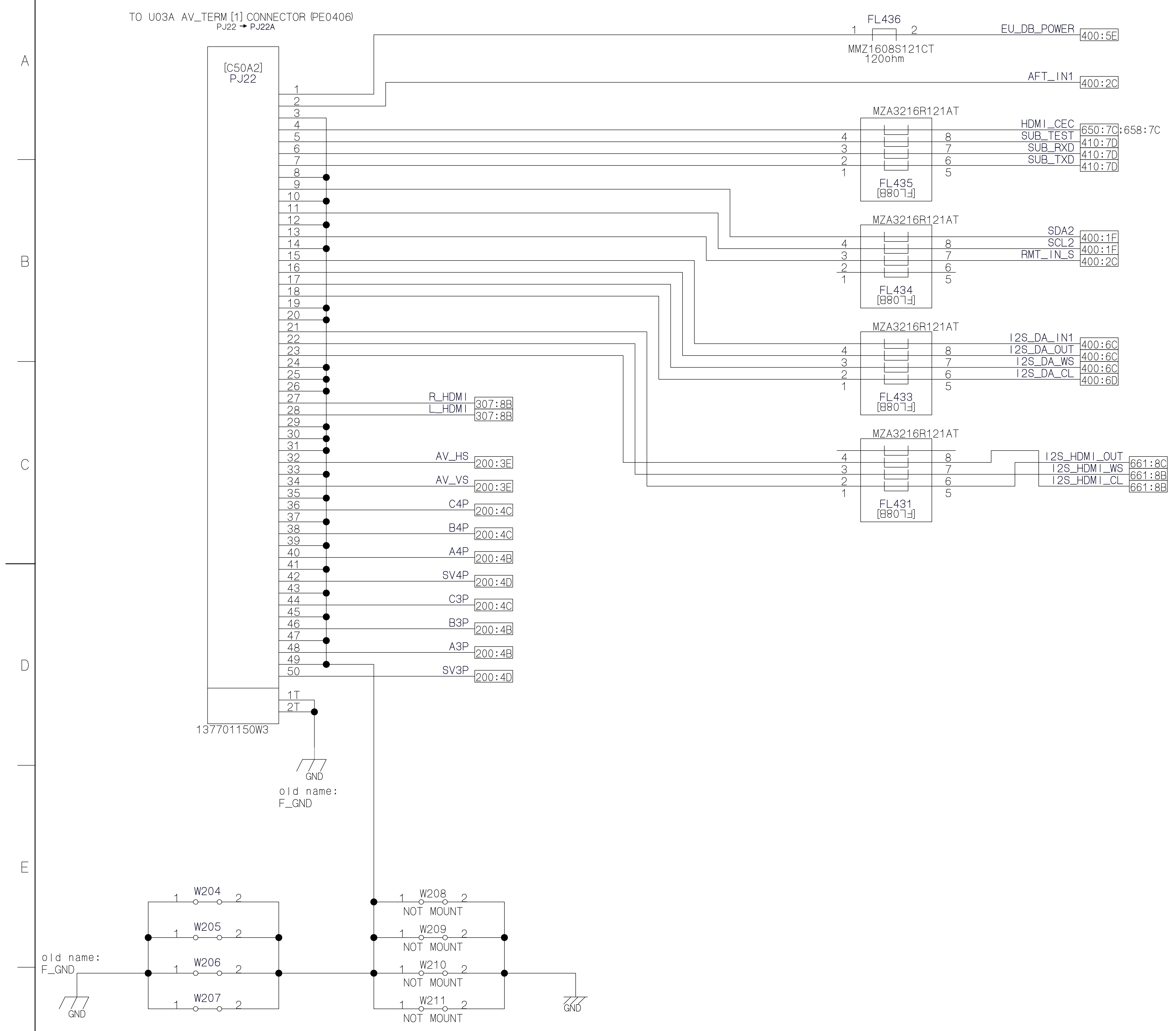
U03D ILLUM [16] Illumination (PE0406)


TO U03A AV_TERM [1] CONNECTOR (PE0406)
PK01A ← PK01B
Illumi
GND
9V
3
2
1
3P B3B-PH-K-S
PK01B
DK06
OPEN
DK01
GM5BC95251AC
QK01
2SC5343UF-Y
RK01
100
RK06
470
DK07
OPEN
DK02
GM5BC95251AC
QK02
2SC5343UF-Y
RK02
100
RK07
470
DK08
OPEN
DK03
GM5BC95251AC
QK03
2SC5343UF-Y
RK03
100
RK08
470
DK09
OPEN
DK04
GM5BC95251AC
QK04
2SC5343UF-Y
RK04
100
RK09
470
DK10
OPEN
DK05
GM5BC95251AC
QK05
2SC5343UF-Y
RK05
100
RK10
470

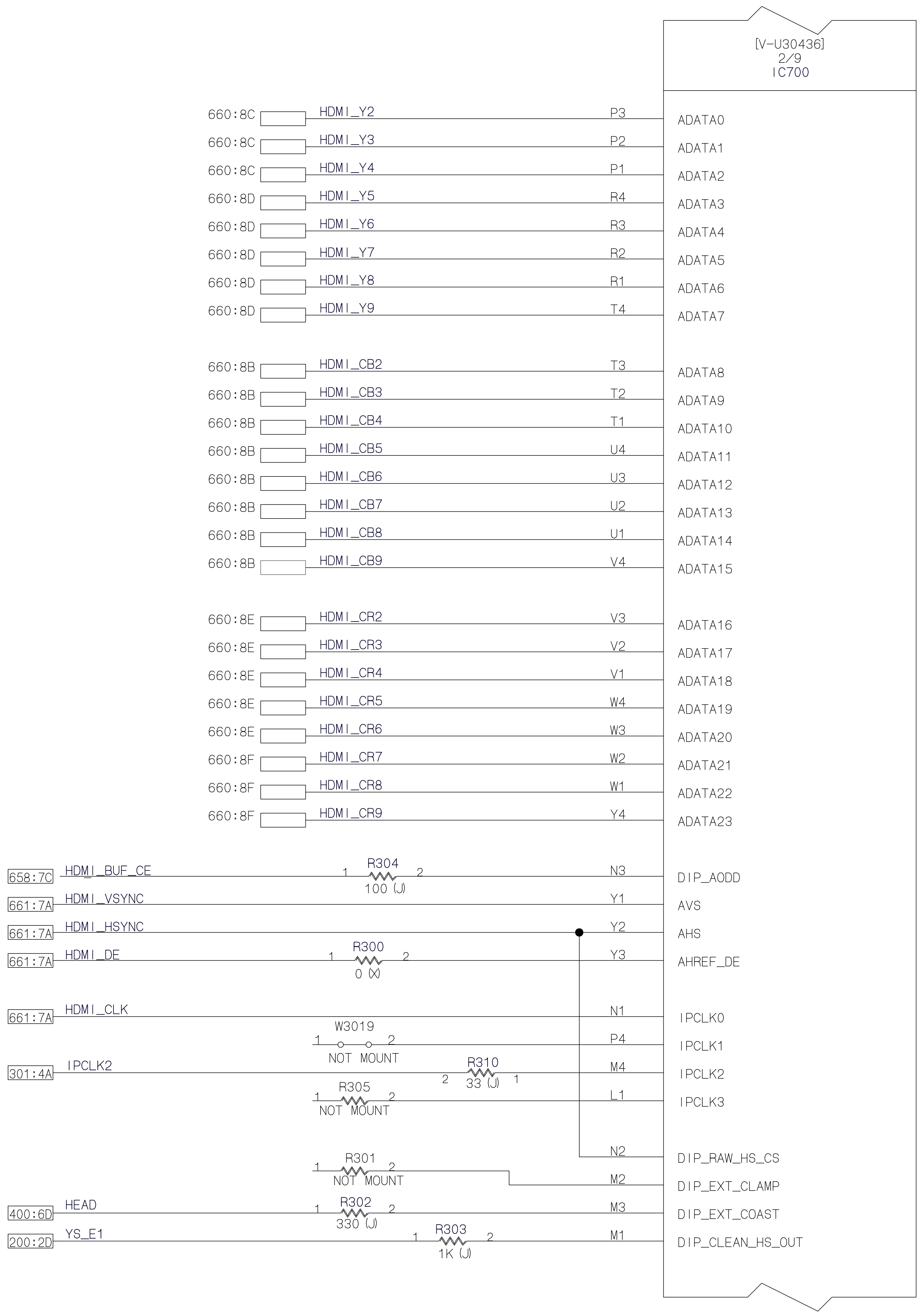
U03D ILLUM [19] Illumination (PE0406)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
TO U03A AV_TERM [1] CONNECTOR (PE0406)
PJ80 → PJ80A
[C50A2]
PJ80
137701150W3
AFT_IN2
KEY_FGND
ADC_IN2
ADC_IN1
ADC_IN3
YS_E1
SCL1
SDA1
YS_E2
AC_DETECT
POWER_LCD
400:2C
404:1B
300:5F
400:1E
401:6B
661:1F
400:6B
401:6B
9V
C873
16V
1uF (K)
5V1
GND
old name:
F_GND
W234
W235
W236
W237
W238
W239
W240
W241
NOT MOUNT
201:2D
A3P
A4P
B3P
B4P
C3P
C4P
SV3P
SV4P
W220
W221
W222
W223
W224
W225
W226
W227
W228
W229
W230
W231
W232
W233
0 (X)
スプリアス対策のため
ネガティブフィードバック端子を
GND接続をOR対応とする。
R2001
R2002
R2003
R2004
R2005
R2006
R2007
R2015
R2017
R2018
R2000
R2020
R2021
R2023
R2024
R2025
R2026
56 (J)
FL201
FL202
FL203
C2000
C2001
C2002
C2003
C2004
C2005
C2006
C2007
C2008
C2009
C2010
C2011
C2012
C2013
C2014
C2015
C2016
C2017
C2018
C2019
100nF (K)
470nF (K)
D201
D202
D203
D205
D206
D207
D209
D210
D211
D213
D214
D215
D216
D224
D225
[ZD]
UDZSTE-176.2B
[V-U30436]
1/9
IC700
AB1 A1P
AF1 A2P
AF4 A3P
AF7 A4P
AD1 AN
AC2 B1P
AE2 B2P
AE5 B3P
AE8 B4P
AF3 BN
AC1 C1P
AF2 C2P
AF5 C3P
AF8 C4P
AF6 CN
AB2 SV1P
AE1 SV2P
AE4 SV3P
AE7 SV4P
AF9 SVN
AA1 NC
AC7 VOUT2
AF12 AIP_RAW_HS_CS
AE12 AIP_RAW_VS
AD13 EXT_OSD_VS
AC13 EXT_OSD_HS
AF13 EXT_OSD_CLK
MOUNT
W203
ON
W219
4.7K (J)
AV_HS
AV_VS
201:2C
R2010
R2011
33 (J)
R2013
R2030
R2031
R2032
R2033
1K (J)
HDMI_PWRB
HDMI_PWRA
650:4E:651:2C:653:2A:660:1E
650:4B:651:2A:652:2A:660:1D

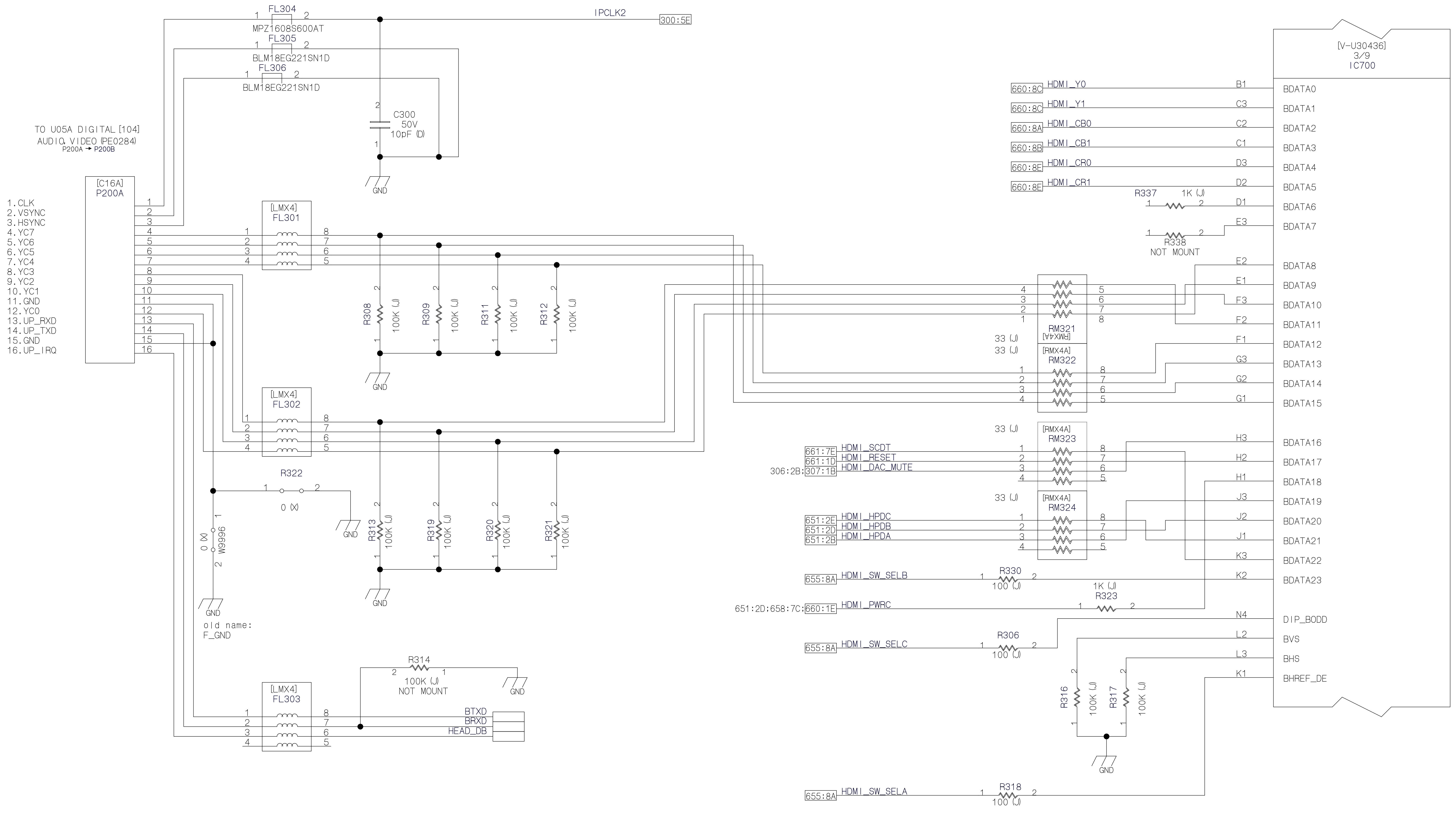
U04AS SIGNAL [200] ANALOG_IN1 (PE0422)


TO U03A AV_TERM [1] CONNECTOR (PE0406)
PJ22 → PJ22A
[C50A2]
PJ22
137701150W3
1T
2T
GND
old name:
F_GND
FL436
MMZ1608S121CT
120ohm
EU_DB_POWER
400:5E
AFT_IN1
400:2C
MZA3216R121AT
FL435
[FL08B]
HDMI_CEC
650:7C;658:7C
SUB_TEST
410:7D
SUB_RXD
410:7D
SUB_TXD
410:7D
MZA3216R121AT
FL434
[FL08B]
SDA2
400:1F
SCL2
400:1F
RMT_IN_S
400:2C
MZA3216R121AT
FL433
[FL08B]
I2S_DA_IN1
400:6C
I2S_DA_OUT
400:6C
I2S_DA_WS
400:6C
I2S_DA_CL
400:6D
MZA3216R121AT
FL431
[FL08B]
I2S_HDMI_OUT
661:8C
I2S_HDMI_WS
661:8B
I2S_HDMI_CL
661:8B
R_HDMI
307:8B
L_HDMI
307:8B
AV_HS
200:3E
AV_VS
200:3E
C4P
200:4C
B4P
200:4C
A4P
200:4B
SV4P
200:4D
C3P
200:4C
B3P
200:4B
A3P
200:4B
SV3P
200:4D
W204
W205
W206
W207
W208
NOT MOUNT
W209
NOT MOUNT
W210
NOT MOUNT
W211
NOT MOUNT
old name:
F_GND
GND
GND

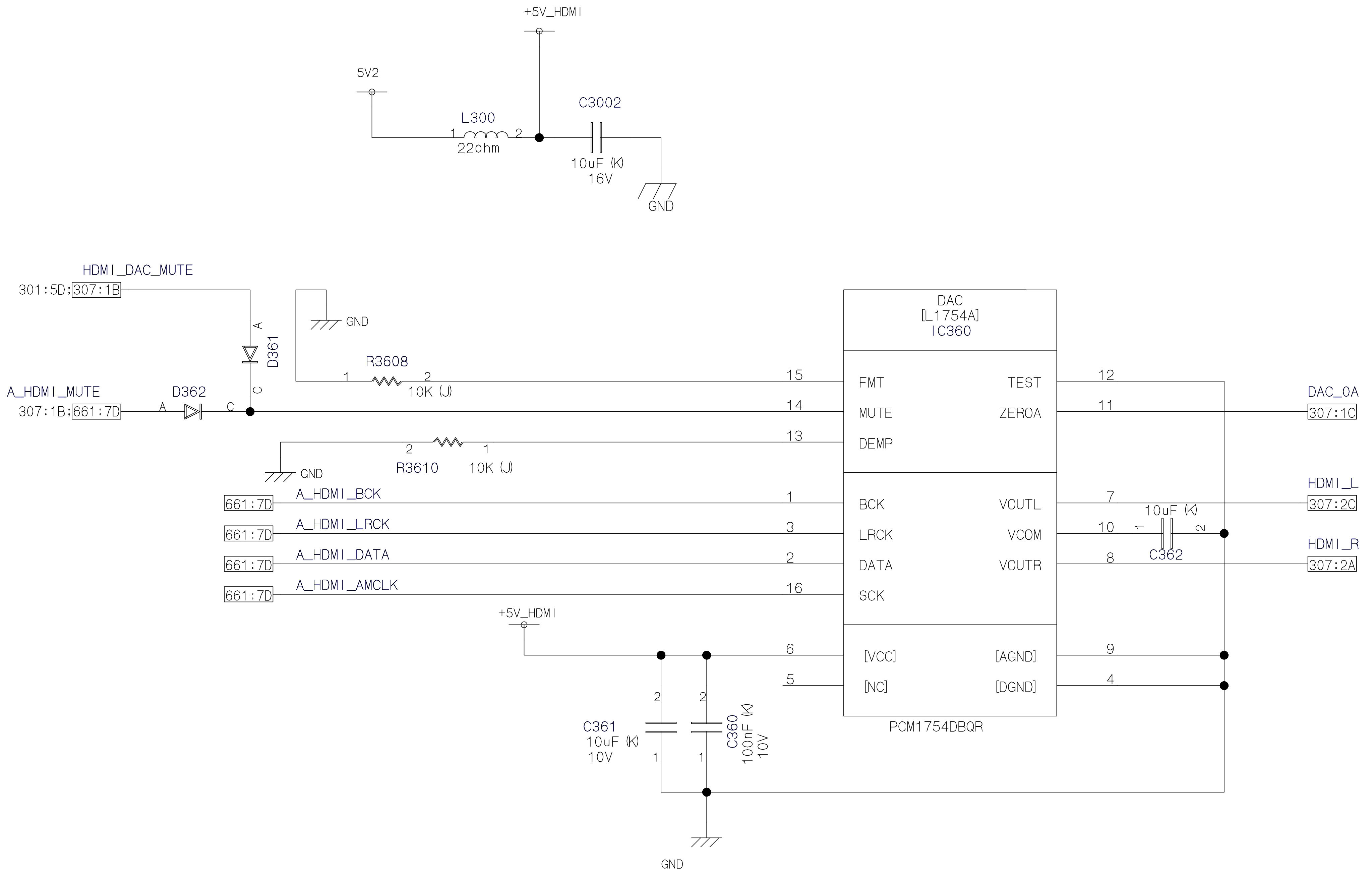
U04AS SIGNAL [201] ANALOG_IN2 (PE0422)


[V-U30436]
2/9
IC700
660:8C HDMI_Y2 P3 ADATA0
660:8C HDMI_Y3 P2 ADATA1
660:8C HDMI_Y4 P1 ADATA2
660:8D HDMI_Y5 R4 ADATA3
660:8D HDMI_Y6 R3 ADATA4
660:8D HDMI_Y7 R2 ADATA5
660:8D HDMI_Y8 R1 ADATA6
660:8D HDMI_Y9 T4 ADATA7
660:8B HDMI_CB2 T3 ADATA8
660:8B HDMI_CB3 T2 ADATA9
660:8B HDMI_CB4 T1 ADATA10
660:8B HDMI_CB5 U4 ADATA11
660:8B HDMI_CB6 U3 ADATA12
660:8B HDMI_CB7 U2 ADATA13
660:8B HDMI_CB8 U1 ADATA14
660:8B HDMI_CB9 V4 ADATA15
660:8E HDMI_CR2 V3 ADATA16
660:8E HDMI_CR3 V2 ADATA17
660:8E HDMI_CR4 V1 ADATA18
660:8E HDMI_CR5 W4 ADATA19
660:8E HDMI_CR6 W3 ADATA20
660:8F HDMI_CR7 W2 ADATA21
660:8F HDMI_CR8 W1 ADATA22
660:8F HDMI_CR9 Y4 ADATA23
658:7C HDMI_BUF_CE
R304
1 2
100 (J)
N3 DIP_AODD
661:7A HDMI_VSYNC Y1 AVS
661:7A HDMI_HSYNC Y2 AHS
661:7A HDMI_DE
R300
1 2
0 (X)
Y3 AHREF_DE
661:7A HDMI_CLK N1 IPCLK0
W3019
1 2
NOT MOUNT
P4 IPCLK1
301:4A IPCLK2
R310
2 1
33 (J)
M4 IPCLK2
R305
1 2
NOT MOUNT
L1 IPCLK3
N2 DIP_RAW_HS_CS
R301
1 2
NOT MOUNT
M2 DIP_EXT_CLAMP
400:6D HEAD
R302
1 2
330 (J)
M3 DIP_EXT_COAST
200:2D YS_E1
R303
1 2
1K (J)
M1 DIP_CLEAN_HS_OUT

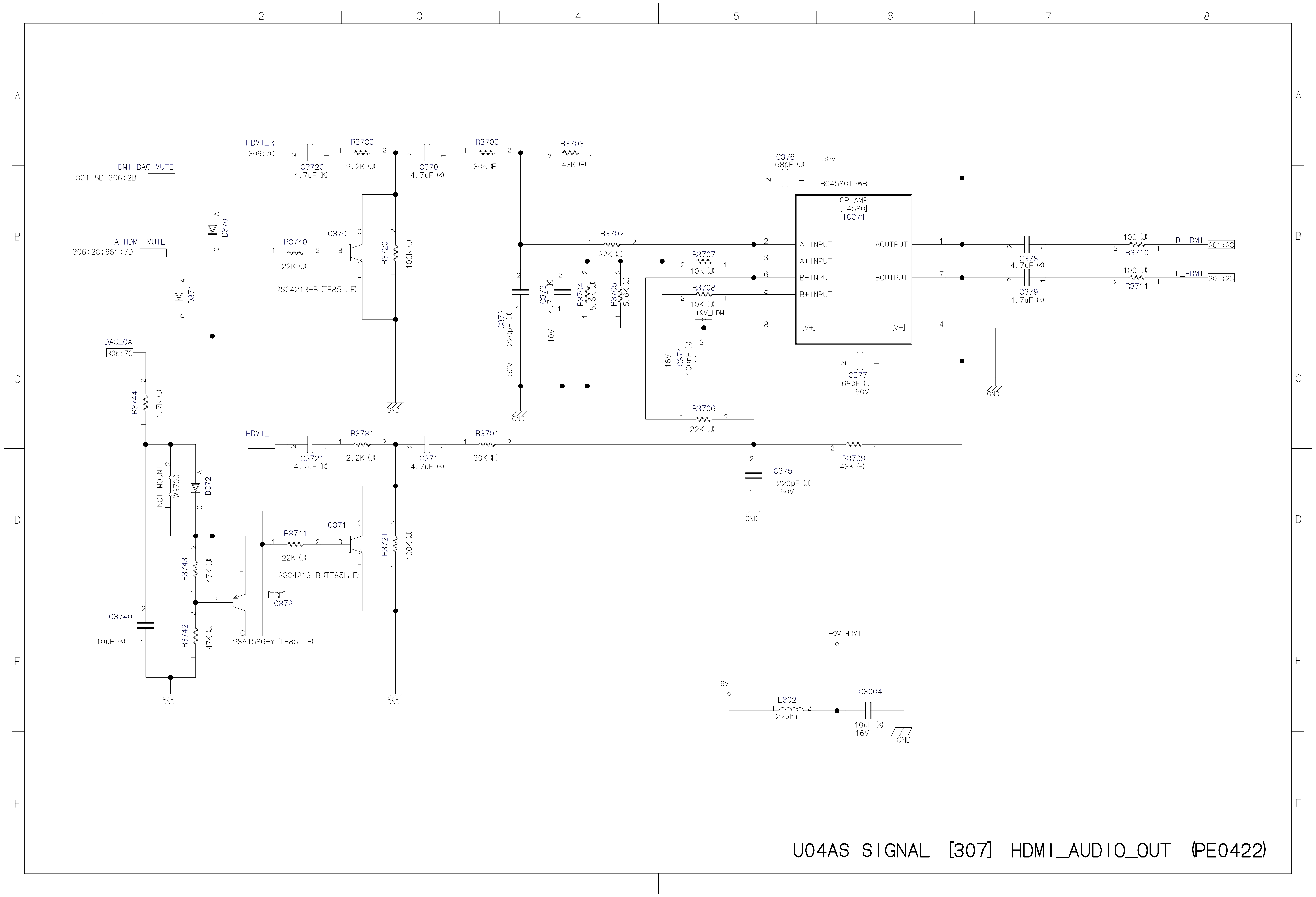
U04AS SIGNAL [300] DIGITAL IN_A (PE0422)


FL304
MPZ1608S600AT
FL305
BLM18EG221SN1D
FL306
BLM18EG221SN1D
IPCLK2
300:5E
C300
50V
10pF (D)
GND
TO U05A DIGITAL [104]
AUDIO, VIDEO (PE0284)
P200A → P200B
[C16A]
P200A
1.CLK
2.VSYNC
3.HSYNC
4.YC7
5.YC6
6.YC5
7.YC4
8.YC3
9.YC2
10.YC1
11.GND
12.YC0
13.UP_RXD
14.UP_TXD
15.GND
16.UP_IRQ
[LMX4]
FL301
[LMX4]
FL302
[LMX4]
FL303
R308 100K (J)
R309 100K (J)
R311 100K (J)
R312 100K (J)
R313 100K (J)
R319 100K (J)
R320 100K (J)
R321 100K (J)
R322
0 (X)
W9996
0 (X)
old name:
F_GND
R314
100K (J)
NOT MOUNT
BTXD
BRXD
HEAD_DB
[V-U30436]
3/9
IC700
660:8C HDMI_Y0 B1 BDATA0
660:8C HDMI_Y1 C3 BDATA1
660:8A HDMI_CB0 C2 BDATA2
660:8B HDMI_CB1 C1 BDATA3
660:8E HDMI_CR0 D3 BDATA4
660:8E HDMI_CR1 D2 BDATA5
R337 1K (J) D1 BDATA6
R338 NOT MOUNT E3 BDATA7
E2 BDATA8
E1 BDATA9
F3 BDATA10
F2 BDATA11
F1 BDATA12
G3 BDATA13
G2 BDATA14
G1 BDATA15
H3 BDATA16
H2 BDATA17
H1 BDATA18
J3 BDATA19
J2 BDATA20
J1 BDATA21
K3 BDATA22
K2 BDATA23
N4 DIP_BODD
L2 BVS
L3 BHS
K1 BHREF_DE
RM321
[RMX4A]
33 (J)
33 (J)
[RMX4A]
RM322
33 (J)
[RMX4A]
RM323
661:7E HDMI_SCDT
661:1D HDMI_RESET
306:2B;307:1B HDMI_DAC_MUTE
33 (J)
[RMX4A]
RM324
651:2E HDMI_HPDC
651:2D HDMI_HPDB
651:2B HDMI_HPDA
655:8A HDMI_SW_SELB
R330
100 (J)
651:2D;658:7C;660:1E HDMI_PWRC
1K (J)
R323
655:8A HDMI_SW_SELC
R306
100 (J)
R316 100K (J)
R317 100K (J)
GND
655:8A HDMI_SW_SELA
R318
100 (J)

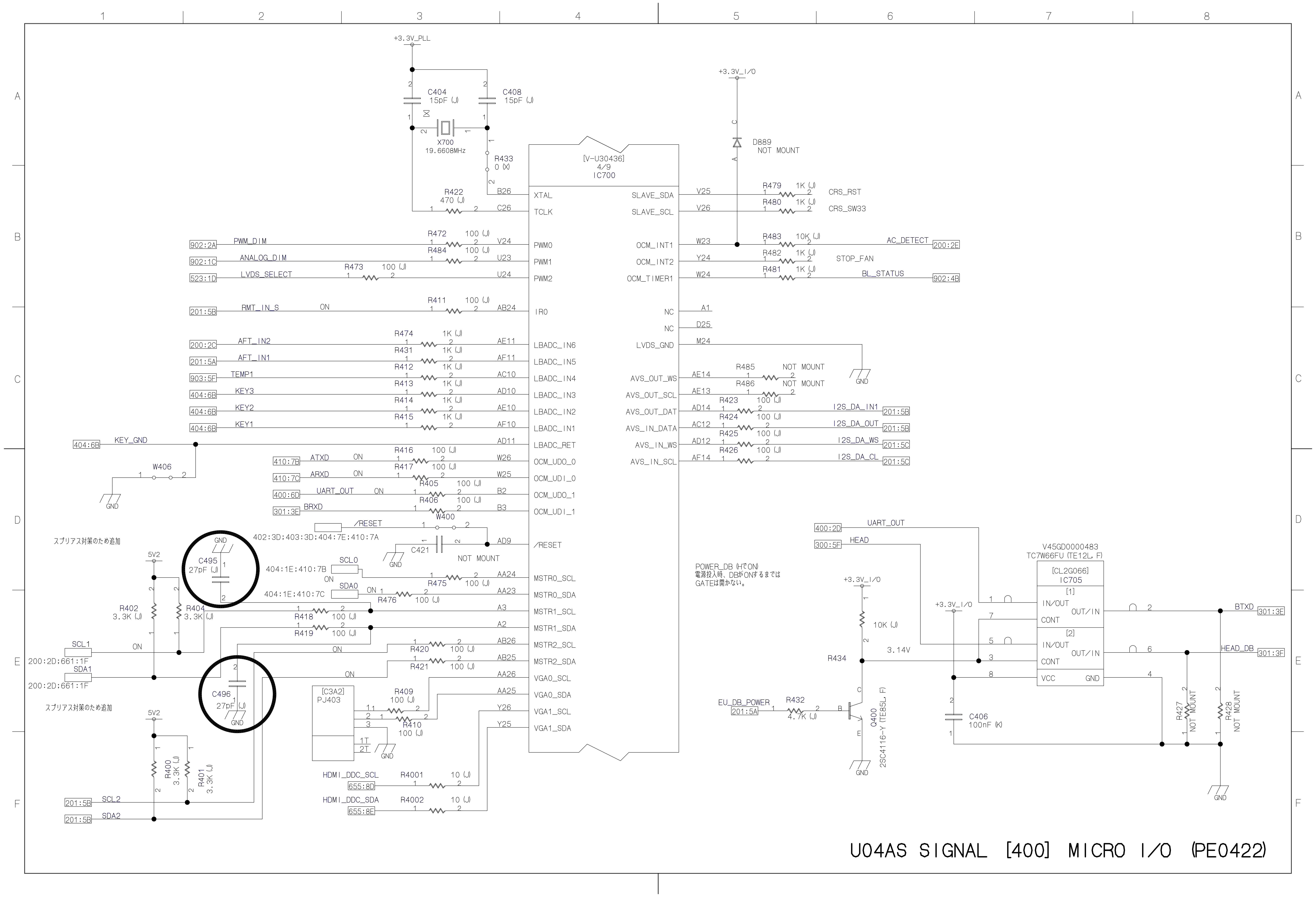
U04AS SIGNAL [301] DIGITAL IN_B (PE0422)


+5V_HDMI
5V2
L300
1
2
22ohm
C3002
10uF (K)
16V
GND
HDMI_DAC_MUTE
301:5D;307:1B
A
D361
C
GND
R3608
1
2
10K (J)
A_HDMI_MUTE
307:1B;661:7D
A
D362
C
2
R3610
1
10K (J)
GND
661:7D
A_HDMI_BCK
661:7D
A_HDMI_LRCK
661:7D
A_HDMI_DATA
661:7D
A_HDMI_AMCLK
+5V_HDMI
DAC
[L1754A]
IC360
15
FMT
14
MUTE
13
DEMP
1
BCK
3
LRCK
2
DATA
16
SCK
6
[VCC]
5
[NC]
TEST
12
ZEROA
11
VOUTL
7
VCOM
10
VOUTR
8
[AGND]
9
[DGND]
4
PCM1754DBQR
DAC_0A
307:1C
HDMI_L
307:2C
10uF (K)
1
2
C362
HDMI_R
307:2A
2
2
C361
10uF (K)
10V
1
1
C360
100nF (K)
10V
GND

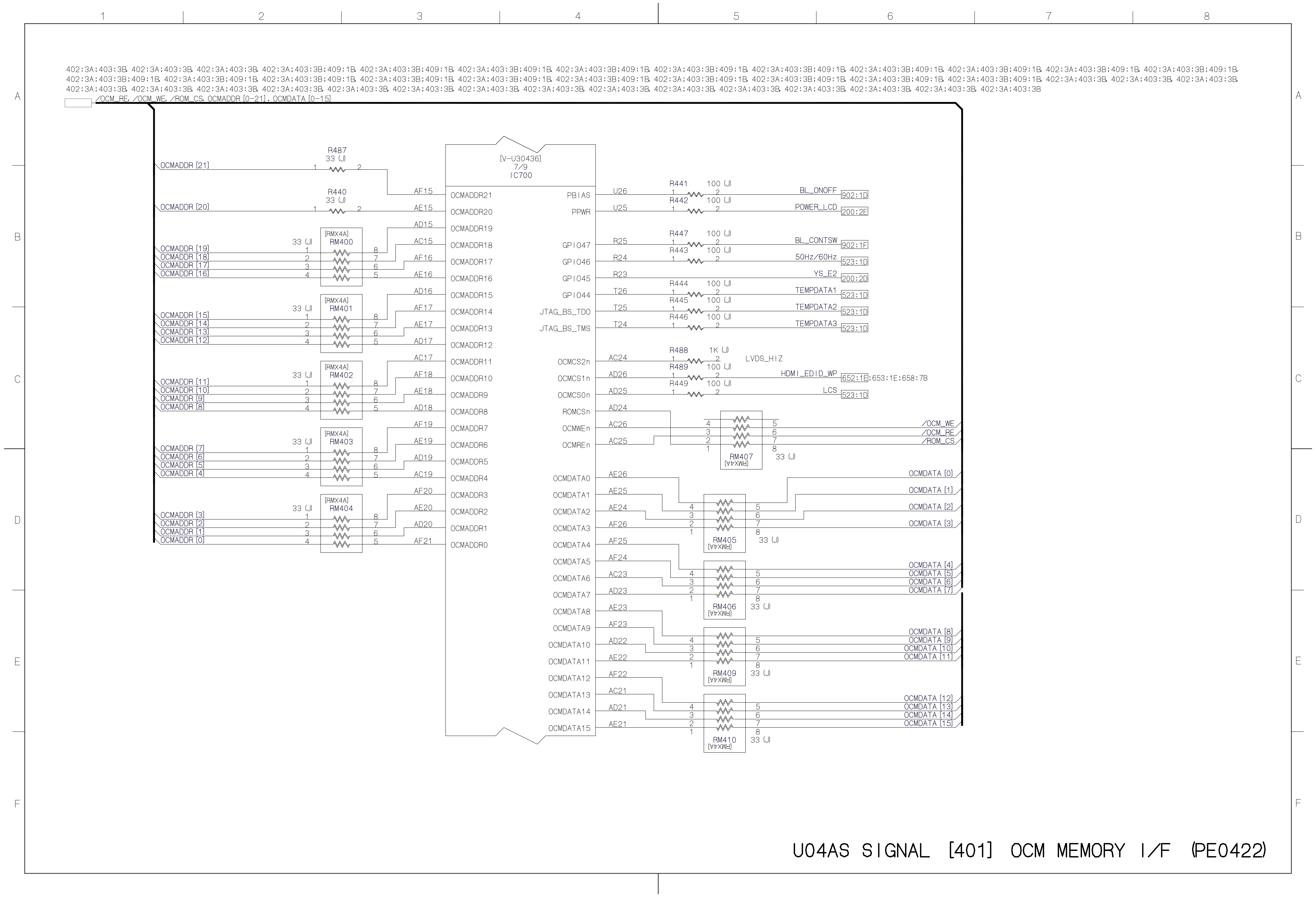
U04AS SIGNAL [306] HDMI_AUDIO_DAC (PE0422)


HDMI_R
306:7C
C3720
4.7uF (K)
R3730
2.2K (J)
C370
4.7uF (K)
R3700
30K (F)
R3703
43K (F)
C376
68pF (J)
50V
RC4580IPWR
OP-AMP
[L4580]
IC371
A-INPUT
A+INPUT
B-INPUT
B+INPUT
AOUTPUT
BOUTPUT
[V+]
[V-]
R3702
22K (J)
R3707
10K (J)
R3708
10K (J)
+9V_HDMI
C372
220pF (J)
50V
C373
4.7uF (K)
10V
R3704
5.6K (J)
R3705
5.6K (J)
C374
100nF (K)
16V
C377
68pF (J)
50V
C378
4.7uF (K)
C379
4.7uF (K)
R3710
100 (J)
R3711
100 (J)
R_HDMI
L_HDMI
201:2C
201:2C
R3706
22K (J)
R3709
43K (F)
C375
220pF (J)
50V
HDMI_DAC_MUTE
301:5D:306:2B
A_HDMI_MUTE
306:2C:661:7D
D370
D371
DAC_0A
306:7C
R3744
4.7K (J)
Q370
R3740
22K (J)
2SC4213-B (TE85L, F)
R3720
100K (J)
HDMI_L
C3721
4.7uF (K)
R3731
2.2K (J)
C371
4.7uF (K)
R3701
30K (F)
NOT MOUNT
W3700
D372
Q371
R3741
22K (J)
2SC4213-B (TE85L, F)
R3721
100K (J)
R3743
47K (J)
[TRP]
Q372
2SA1586-Y (TE85L, F)
R3742
47K (J)
C3740
10uF (K)
9V
L302
22ohm
+9V_HDMI
C3004
10uF (K)
16V
GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

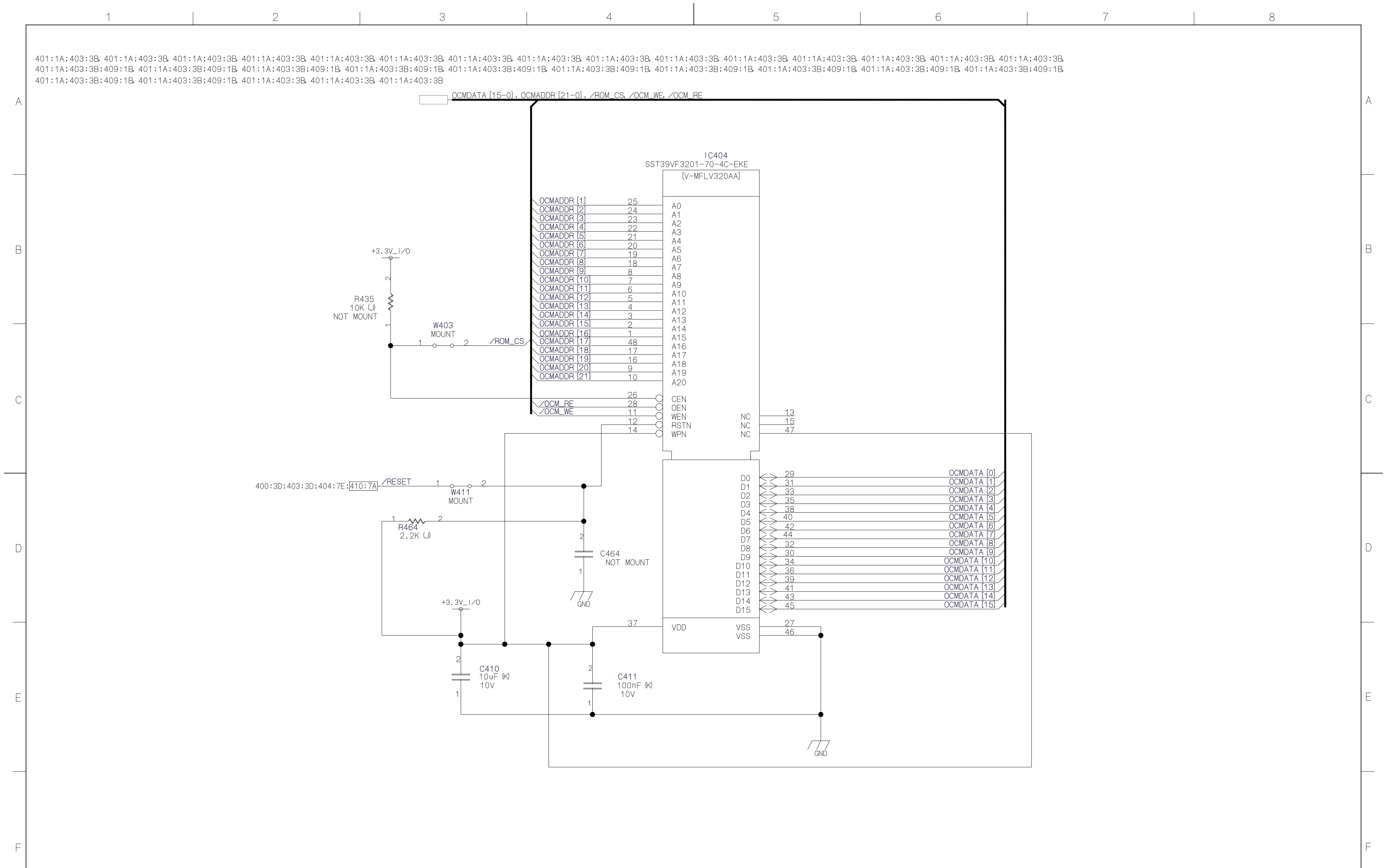
U04AS SIGNAL [307] HDMI_AUDIO_OUT (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_PLL
C404
15pF (J)
C408
15pF (J)
X700
19.6608MHz
R433
0 (X)
R422
470 (J)
[V-U30436]
4/9
IC700
XTAL
TCLK
B26
C26
PWM0
PWM1
PWM2
IR0
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
/RESET
MSTR0_SCL
MSTR0_SDA
MSTR1_SCL
MSTR1_SDA
MSTR2_SCL
MSTR2_SDA
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
SLAVE_SDA
SLAVE_SCL
OCM_INT1
OCM_INT2
OCM_TIMER1
NC
LVDS_GND
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
902:2A PWM_DIM
902:1C ANALOG_DIM
523:1D LVDS_SELECT
201:5B RMT_IN_S ON
200:2C AFT_IN2
201:5A AFT_IN1
903:5F TEMP1
404:6B KEY3
404:6B KEY2
404:6B KEY1
404:6B KEY_GND
W406
GND
410:7B ATXD ON
410:7C ARXD ON
400:6D UART_OUT ON
301:3E BRXD
R472 100 (J)
R484 100 (J)
R473 100 (J)
R411 100 (J)
R474 1K (J)
R431 1K (J)
R412 1K (J)
R413 1K (J)
R414 1K (J)
R415 1K (J)
R416 100 (J)
R417 100 (J)
R405 100 (J)
R406 100 (J)
W400
/RESET
402:3D;403:3D;404:7E;410:7A
C421
NOT MOUNT
V24 U23 U24 AB24 AE11 AF11 AC10 AD10 AE10 AF10 AD11 W26 W25 B2 B3 AD9 AA24 AA23 A3 A2 AB26 AB25 AA26 AA25 Y26 Y25
スプリアス対策のため追加
5V2
C495
27pF (J)
SCL0
404:1E;410:7B
SDA0
404:1E;410:7C
ON
R475 100 (J)
R476 100 (J)
R402
3.3K (J)
R404
3.3K (J)
R418 100 (J)
R419 100 (J)
SCL1
200:2D;661:1F
SDA1
200:2D;661:1F
R420 100 (J)
R421 100 (J)
C496
27pF (J)
[C3A2]
PJ403
R409 100 (J)
R410 100 (J)
1T
2T
スプリアス対策のため追加
5V2
R400
3.3K (J)
R401
3.3K (J)
201:5B SCL2
201:5B SDA2
HDMI_DDC_SCL
655:8D
R4001 10 (J)
HDMI_DDC_SDA
655:8E
R4002 10 (J)
+3.3V_I/O
D889
NOT MOUNT
V25 V26 W23 Y24 W24 A1 D25 M24 AE14 AE13 AD14 AC12 AD12 AF14
R479 1K (J)
R480 1K (J)
CRS_RST
CRS_SW33
R483 10K (J)
AC_DETECT
200:2E
R482 1K (J)
STOP_FAN
R481 1K (J)
BL_STATUS
902:4B
R485 NOT MOUNT
R486 NOT MOUNT
R423 100 (J)
R424 100 (J)
R425 100 (J)
R426 100 (J)
I2S_DA_IN1 201:5B
I2S_DA_OUT 201:5B
I2S_DA_WS 201:5C
I2S_DA_CL 201:5C
400:2D UART_OUT
300:5F HEAD
POWER_DB (HでON)
電源投入時、DBがONするまでは
GATEは開かない。
+3.3V_I/O
10K (J)
R434
3.14V
EU_DB_POWER
201:5A
R432
4.7K (J)
Q400
2SC4116-Y(TE85L,F)
GND
+3.3V_I/O
C406
100nF (K)
V45GD0000483
TC7W66FU (TE12L,F)
[CL2G066]
IC705
[1]
IN/OUT
OUT/IN
CONT
[2]
IN/OUT
OUT/IN
CONT
VCC
GND
BTXD 301:3E
HEAD_DB 301:3F
R427 NOT MOUNT
R428 NOT MOUNT
GND

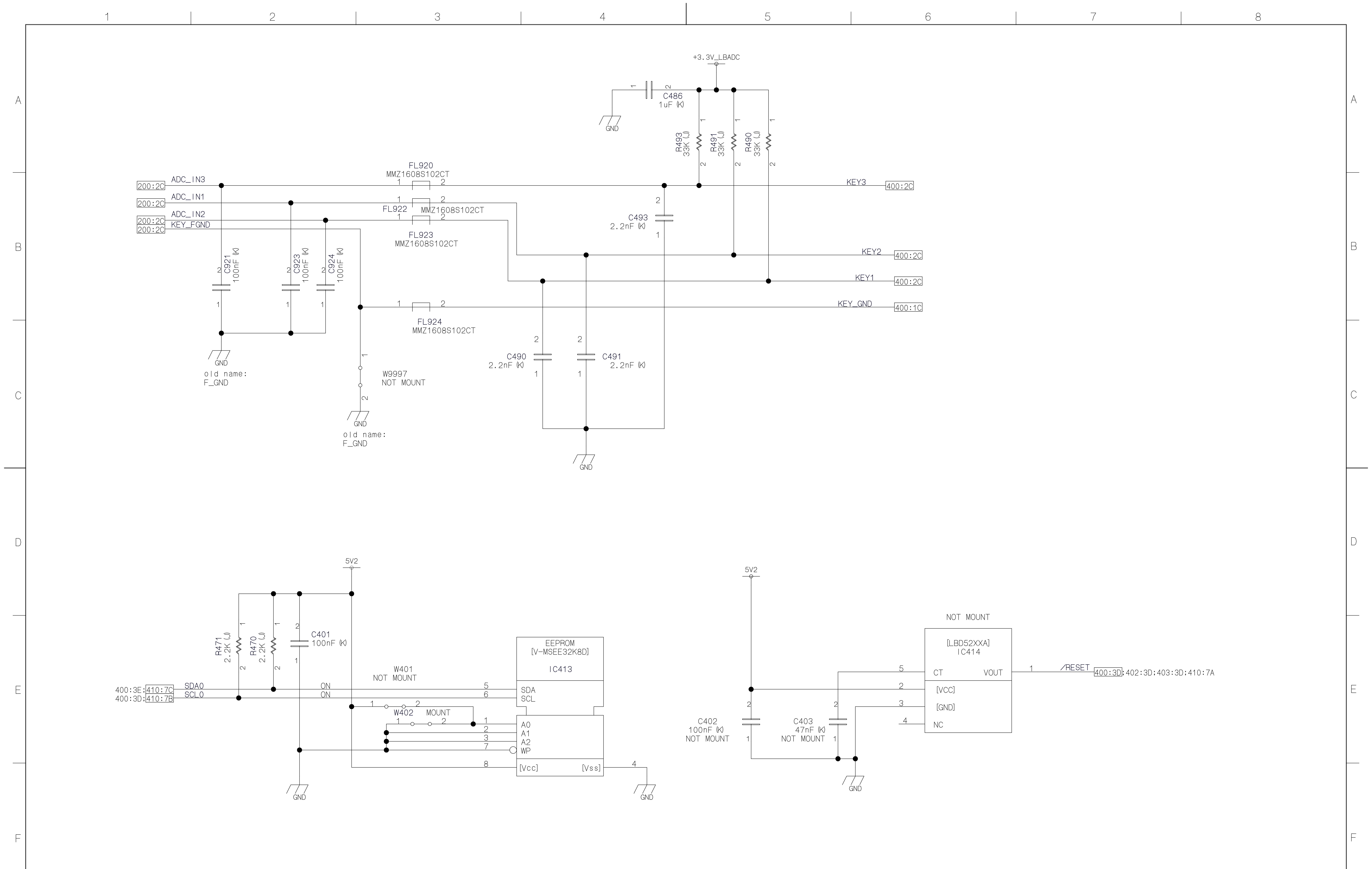
U04AS SIGNAL [400] MICRO I/O (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B
402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B:409:1B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B
402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B, 402:3A:403:3B
/OCM_RE, /OCM_WE, /ROM_CS, OCMADDR [0-21], OCMDATA [0-15]
[V-U30436]
7/9
IC700
R487 33 (J)
R440 33 (J)
OCMADDR [21]
OCMADDR [20]
OCMADDR [19]
OCMADDR [18]
OCMADDR [17]
OCMADDR [16]
OCMADDR [15]
OCMADDR [14]
OCMADDR [13]
OCMADDR [12]
OCMADDR [11]
OCMADDR [10]
OCMADDR [9]
OCMADDR [8]
OCMADDR [7]
OCMADDR [6]
OCMADDR [5]
OCMADDR [4]
OCMADDR [3]
OCMADDR [2]
OCMADDR [1]
OCMADDR [0]
[RMX4A] RM400 33 (J)
[RMX4A] RM401 33 (J)
[RMX4A] RM402 33 (J)
[RMX4A] RM403 33 (J)
[RMX4A] RM404 33 (J)
AF15 OCMADDR21
AE15 OCMADDR20
AD15 OCMADDR19
AC15 OCMADDR18
AF16 OCMADDR17
AE16 OCMADDR16
AD16 OCMADDR15
AF17 OCMADDR14
AE17 OCMADDR13
AD17 OCMADDR12
AC17 OCMADDR11
AF18 OCMADDR10
AE18 OCMADDR9
AD18 OCMADDR8
AF19 OCMADDR7
AE19 OCMADDR6
AD19 OCMADDR5
AC19 OCMADDR4
AF20 OCMADDR3
AE20 OCMADDR2
AD20 OCMADDR1
AF21 OCMADDR0
PBIAS U26 R441 100 (J) BL_ONOFF 902:1D
PPWR U25 R442 100 (J) POWER_LCD 200:2E
GPIO47 R25 R447 100 (J) BL_CONTSW 902:1F
GPIO46 R24 R443 100 (J) 50Hz/60Hz 523:1D
GPIO45 R23 YS_E2 200:2D
GPIO44 T26 R444 100 (J) TEMPDATA1 523:1D
JTAG_BS_TDO T25 R445 100 (J) TEMPDATA2 523:1D
JTAG_BS_TMS T24 R446 100 (J) TEMPDATA3 523:1D
OCMCS2n AC24 R488 1K (J) LVDS_HIZ
OCMCS1n AD26 R489 100 (J) HDMI_EDID_WP 652:1E:653:1E:658:7B
OCMCS0n AD25 R449 100 (J) LCS 523:1D
ROMCSn AD24
OCMWEn AC26
OCMREn AC25
RM407 [RMX4A] 33 (J)
/OCM_WE
/OCM_RE
/ROM_CS
OCMDATA0 AE26
OCMDATA1 AE25
OCMDATA2 AE24
OCMDATA3 AF26
OCMDATA4 AF25
OCMDATA5 AF24
OCMDATA6 AC23
OCMDATA7 AD23
OCMDATA8 AE23
OCMDATA9 AF23
OCMDATA10 AD22
OCMDATA11 AE22
OCMDATA12 AF22
OCMDATA13 AC21
OCMDATA14 AD21
OCMDATA15 AE21
RM405 [RMX4A] 33 (J)
RM406 [RMX4A] 33 (J)
RM409 [RMX4A] 33 (J)
RM410 [RMX4A] 33 (J)
OCMDATA [0]
OCMDATA [1]
OCMDATA [2]
OCMDATA [3]
OCMDATA [4]
OCMDATA [5]
OCMDATA [6]
OCMDATA [7]
OCMDATA [8]
OCMDATA [9]
OCMDATA [10]
OCMDATA [11]
OCMDATA [12]
OCMDATA [13]
OCMDATA [14]
OCMDATA [15]

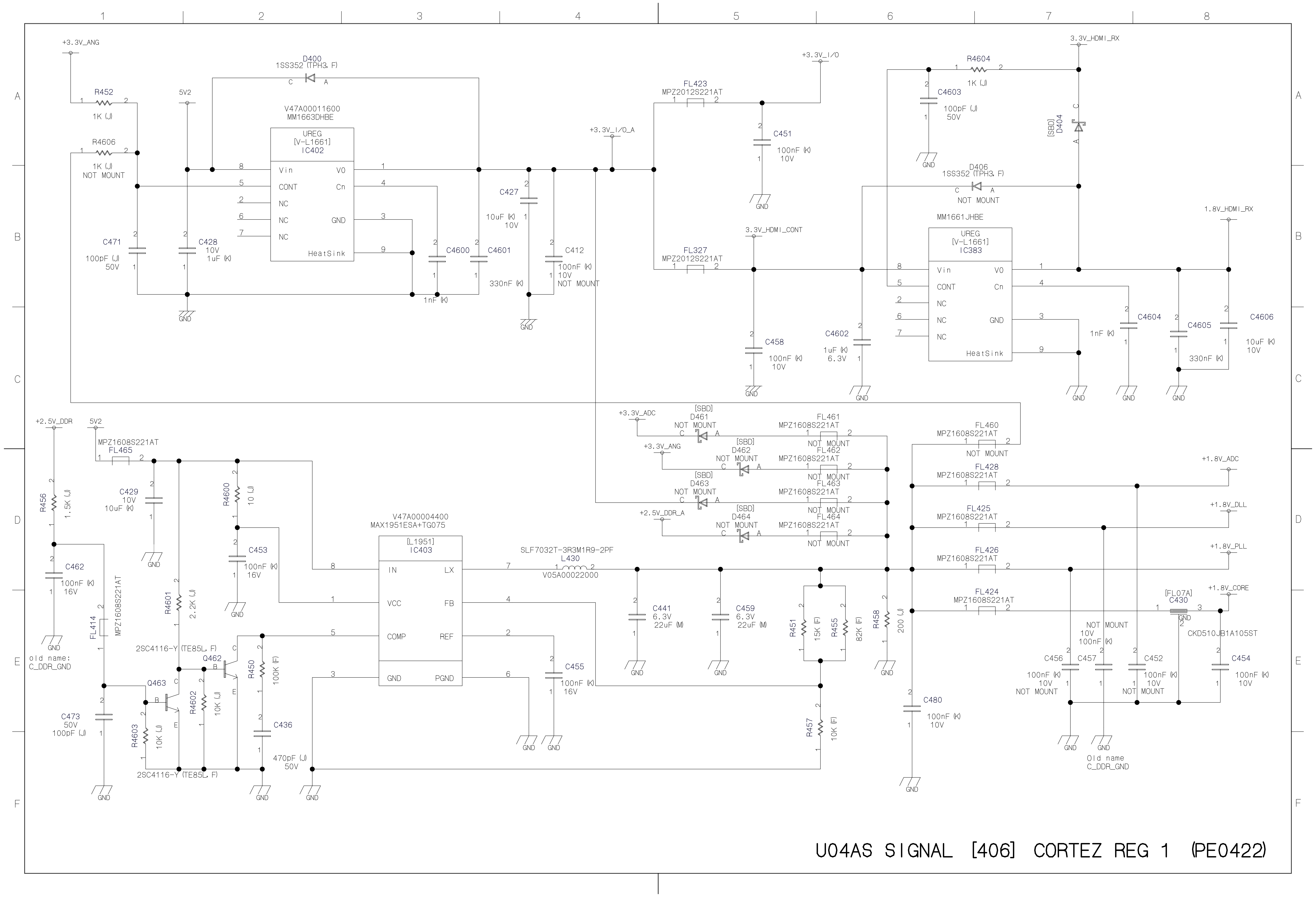
U04AS SIGNAL [401] OCM MEMORY I/F (PE0422)


401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B,
401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B,
401:1A;403:3B;409:1B, 401:1A;403:3B;409:1B, 401:1A;403:3B, 401:1A;403:3B, 401:1A;403:3B
OCMDATA [15-0], OCMADDR [21-0], /ROM_CS, /OCM_WE, /OCM_RE
IC404
SST39VF3201-70-4C-EKE
[V-MFLV320AA]
OCMADDR [1] 25 A0
OCMADDR [2] 24 A1
OCMADDR [3] 23 A2
OCMADDR [4] 22 A3
OCMADDR [5] 21 A4
OCMADDR [6] 20 A5
OCMADDR [7] 19 A6
OCMADDR [8] 18 A7
OCMADDR [9] 8 A8
OCMADDR [10] 7 A9
OCMADDR [11] 6 A10
OCMADDR [12] 5 A11
OCMADDR [13] 4 A12
OCMADDR [14] 3 A13
OCMADDR [15] 2 A14
OCMADDR [16] 1 A15
OCMADDR [17] 48 A16
OCMADDR [18] 17 A17
OCMADDR [19] 16 A18
OCMADDR [20] 9 A19
OCMADDR [21] 10 A20
26 CEN
/OCM_RE 28 OEN
/OCM_WE 11 WEN
12 RSTN
14 WPN
NC 13
NC 15
NC 47
D0 29 OCMDATA [0]
D1 31 OCMDATA [1]
D2 33 OCMDATA [2]
D3 35 OCMDATA [3]
D4 38 OCMDATA [4]
D5 40 OCMDATA [5]
D6 42 OCMDATA [6]
D7 44 OCMDATA [7]
D8 32 OCMDATA [8]
D9 30 OCMDATA [9]
D10 34 OCMDATA [10]
D11 36 OCMDATA [11]
D12 39 OCMDATA [12]
D13 41 OCMDATA [13]
D14 43 OCMDATA [14]
D15 45 OCMDATA [15]
37 VDD
VSS 27
VSS 46
+3.3V_I/O
R435
10K (J)
NOT MOUNT
W403
MOUNT
/ROM_CS
400:3D;403:3D;404:7E; 410:7A /RESET
W411
MOUNT
R464
2.2K (J)
C464
NOT MOUNT
GND
+3.3V_I/O
C410
10uF (K)
10V
C411
100nF (K)
10V
GND
1 2 3 4 5 6 7 8
A B C D E F

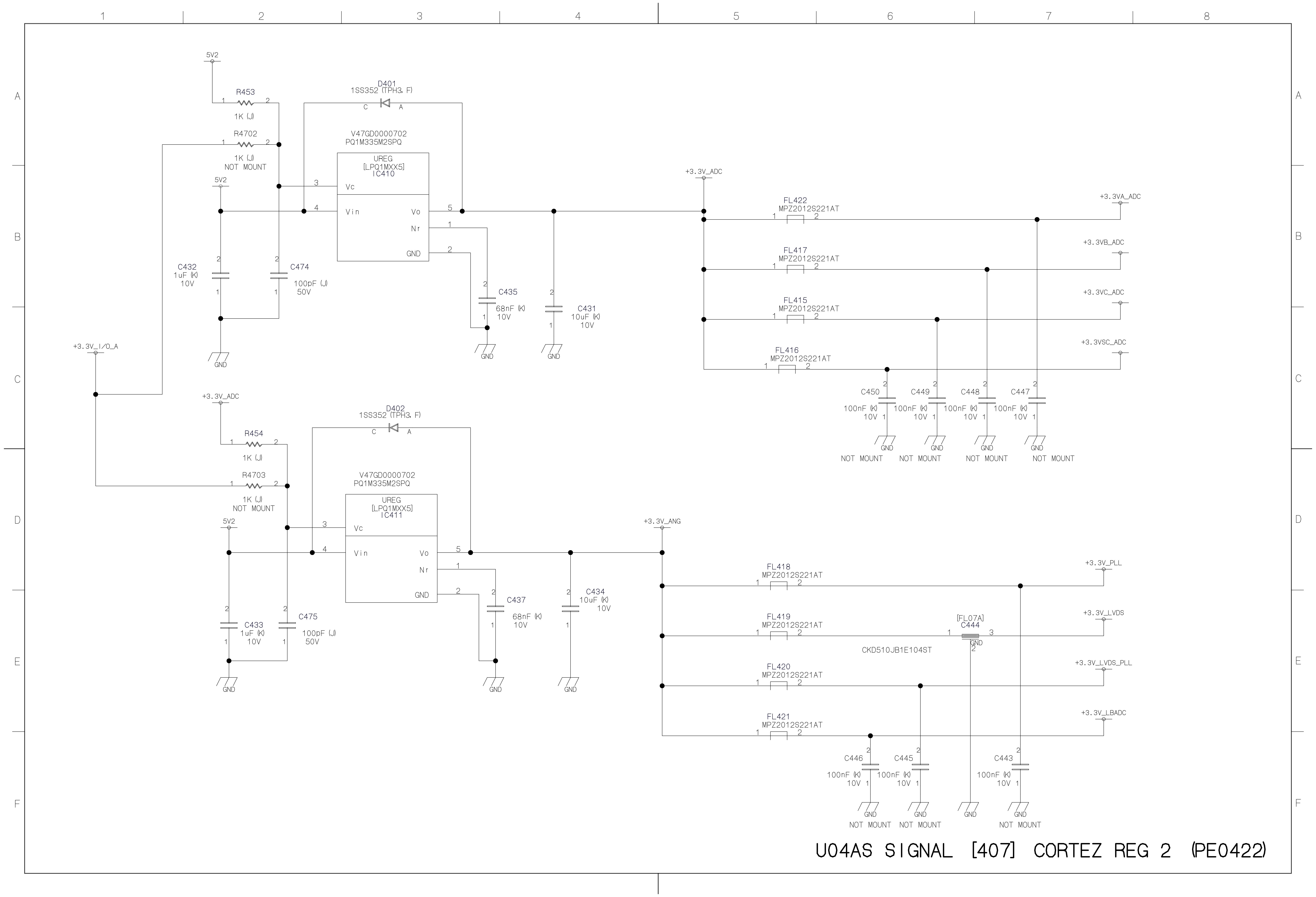
U04AS SIGNAL [402] FLASH MEMORY (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_LBADC
C486
1uF (K)
GND
R493
33K (J)
R491
33K (J)
R490
33K (J)
FL920
MMZ1608S102CT
200:2C
ADC_IN3
200:2C
ADC_IN1
200:2C
ADC_IN2
200:2C
KEY_FGND
FL922
MMZ1608S102CT
FL923
MMZ1608S102CT
C493
2.2nF (K)
KEY3
400:2C
KEY2
400:2C
KEY1
400:2C
KEY_GND
400:1C
C921
100nF (K)
C923
100nF (K)
C924
100nF (K)
FL924
MMZ1608S102CT
GND
old name:
F_GND
W9997
NOT MOUNT
GND
old name:
F_GND
C490
2.2nF (K)
C491
2.2nF (K)
GND
5V2
R471
2.2K (J)
R470
2.2K (J)
C401
100nF (K)
EEPROM
[V-MSEE32K8D]
IC413
W401
NOT MOUNT
400:3E
410:7C
SDA0
400:3D
410:7B
SCL0
ON
ON
SDA
SCL
W402
MOUNT
A0
A1
A2
WP
[Vcc]
[Vss]
GND
GND
5V2
NOT MOUNT
[LBD52XXA]
IC414
CT
VOUT
[VCC]
[GND]
NC
/RESET
400:3D
402:3D;403:3D;410:7A
C402
100nF (K)
NOT MOUNT
C403
47nF (K)
NOT MOUNT
GND

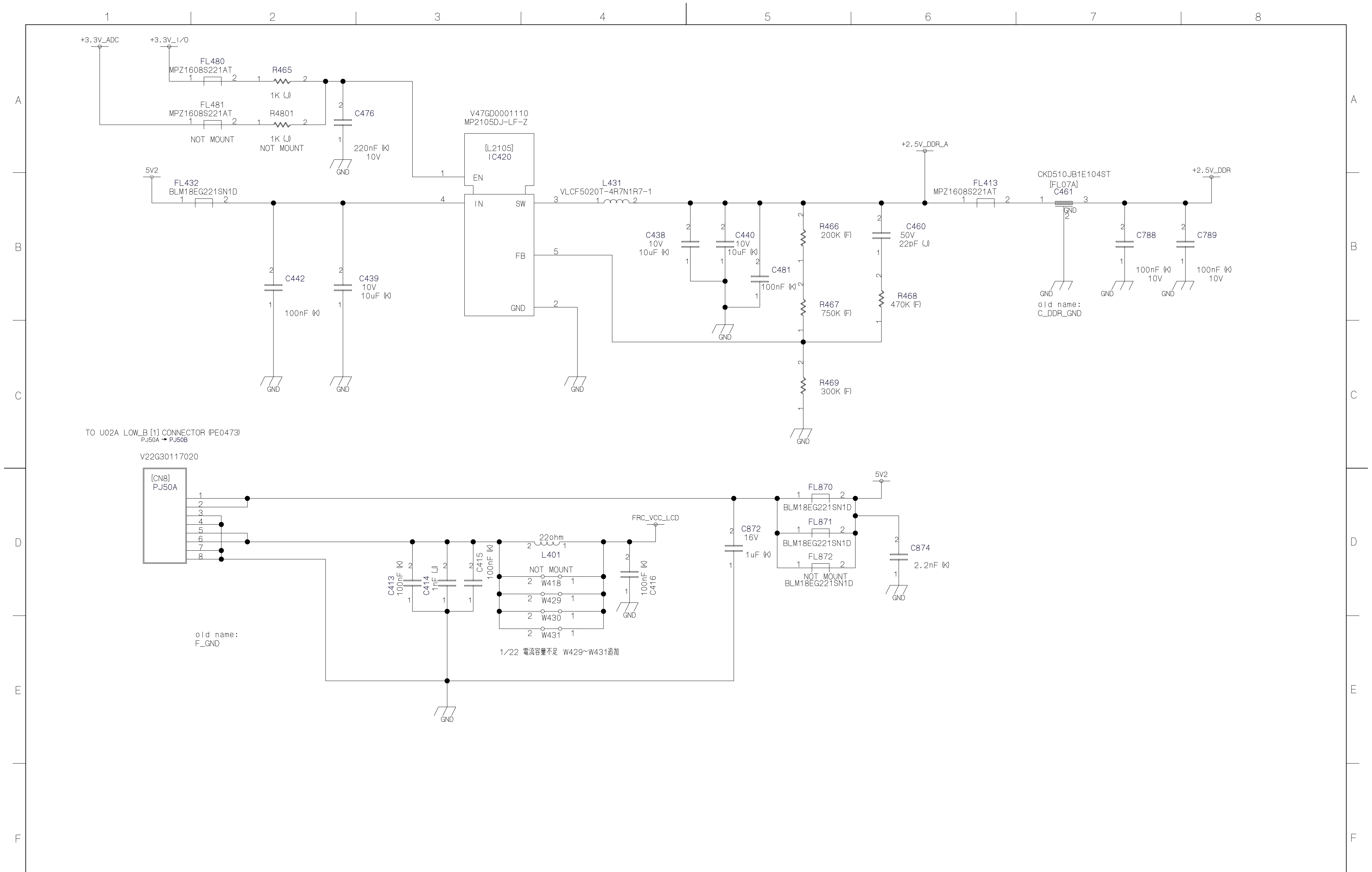
U04AS SIGNAL [404] E2PROM OTHER (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_ANG
R452
1K (J)
R4606
1K (J)
NOT MOUNT
5V2
D400
1SS352 (TPH3, F)
C
A
V47A00011600
MM1663DHBE
UREG
[V-L1661]
IC402
Vin
CONT
NC
NC
NC
VO
Cn
GND
HeatSink
C471
100pF (J)
50V
C428
10V
1uF (K)
C4600
C4601
1nF (K)
330nF (K)
C427
10uF (K)
10V
C412
100nF (K)
10V
NOT MOUNT
GND
+3.3V_I/O_A
FL423
MPZ2012S221AT
+3.3V_I/O
C451
100nF (K)
10V
FL327
MPZ2012S221AT
3.3V_HDMI_CONT
C458
100nF (K)
10V
C4602
1uF (K)
6.3V
3.3V_HDMI_RX
R4604
1K (J)
C4603
100pF (J)
50V
[SBD]
D404
D406
1SS352 (TPH3, F)
NOT MOUNT
MM1661JHBE
UREG
[V-L1661]
IC383
1.8V_HDMI_RX
C4604
1nF (K)
C4605
330nF (K)
C4606
10uF (K)
10V
+2.5V_DDR
5V2
MPZ1608S221AT
FL465
R456
1.5K (J)
C429
10V
10uF (K)
C462
100nF (K)
16V
FL414
MPZ1608S221AT
old name:
C_DDR_GND
R4600
10 (J)
C453
100nF (K)
16V
R4601
2.2K (J)
2SC4116-Y (TE85L, F)
Q462
Q463
R450
100K (F)
C436
470pF (J)
50V
R4602
10K (J)
R4603
10K (J)
C473
50V
100pF (J)
2SC4116-Y (TE85L, F)
V47A00004400
MAX1951ESA+TG075
[L1951]
IC403
IN
VCC
COMP
GND
LX
FB
REF
PGND
SLF7032T-3R3M1R9-2PF
L430
V05A00022000
C455
100nF (K)
16V
C441
6.3V
22uF (M)
C459
6.3V
22uF (M)
R451
15K (F)
R455
82K (F)
R458
200 (J)
R457
10K (F)
+3.3V_ADC
[SBD]
D461
NOT MOUNT
+3.3V_ANG
D462
NOT MOUNT
D463
NOT MOUNT
+2.5V_DDR_A
D464
NOT MOUNT
FL461
MPZ1608S221AT
FL462
MPZ1608S221AT
FL463
MPZ1608S221AT
FL464
MPZ1608S221AT
FL460
MPZ1608S221AT
NOT MOUNT
FL428
MPZ1608S221AT
+1.8V_ADC
FL425
MPZ1608S221AT
+1.8V_DLL
FL426
MPZ1608S221AT
+1.8V_PLL
FL424
MPZ1608S221AT
[FL07A]
C430
+1.8V_CORE
CKD510JB1A105ST
C480
100nF (K)
10V
C456
100nF (K)
10V
NOT MOUNT
C457
NOT MOUNT
10V
100nF (K)
C452
100nF (K)
10V
NOT MOUNT
C454
100nF (K)
10V
Old name
C_DDR_GND

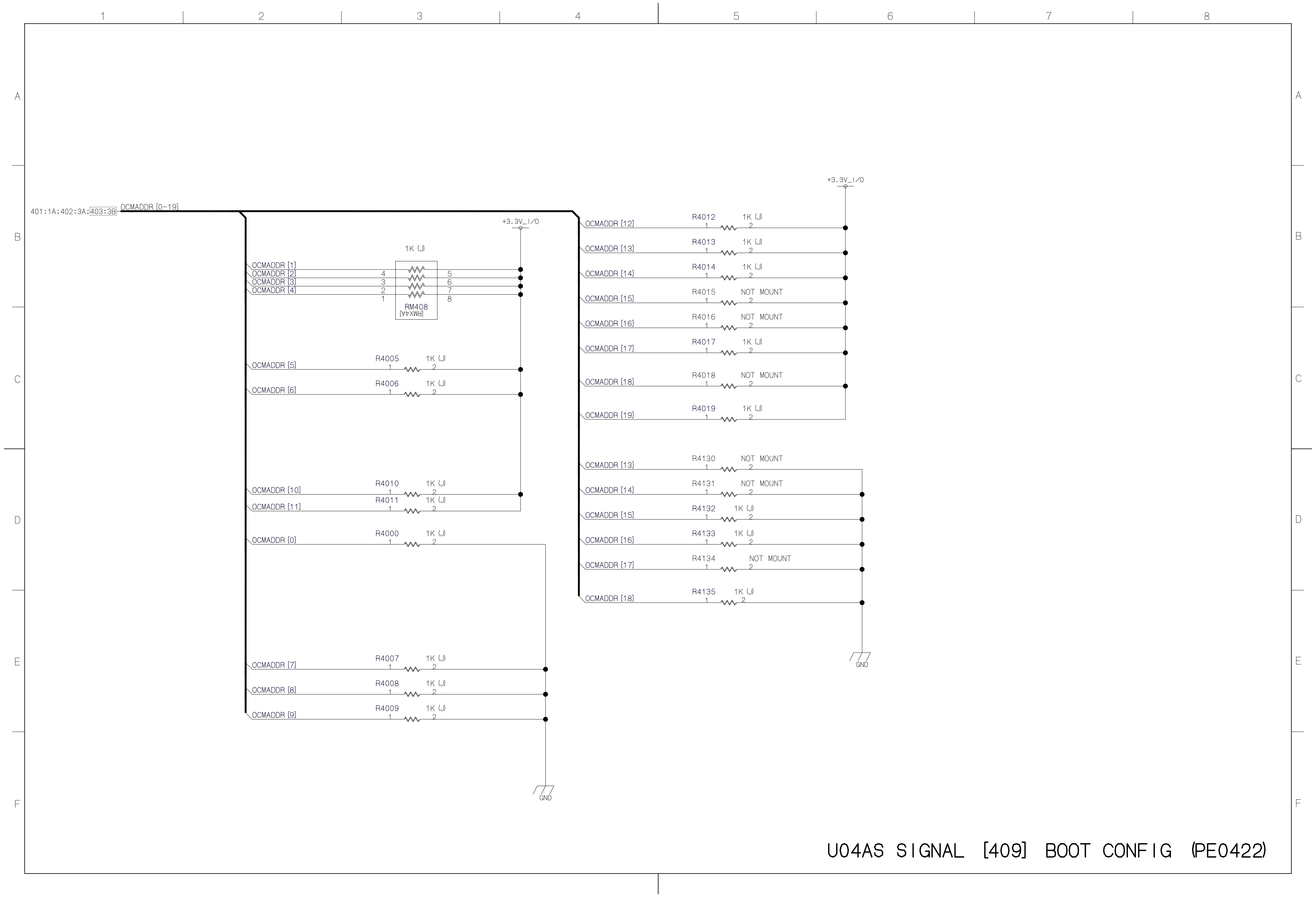
U04AS SIGNAL [406] CORTEZ REG 1 (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
R453
1K (J)
R4702
1K (J)
NOT MOUNT
D401
1SS352 (TPH3, F)
C
A
V47GD0000702
PQ1M335M2SPQ
UREG
[LPQ1MXX5]
IC410
Vc
Vin
Vo
Nr
GND
C432
1uF (K)
10V
C474
100pF (J)
50V
C435
68nF (K)
10V
C431
10uF (K)
10V
GND
+3.3V_I/O_A
+3.3V_ADC
FL422
MPZ2012S221AT
+3.3VA_ADC
FL417
MPZ2012S221AT
+3.3VB_ADC
FL415
MPZ2012S221AT
+3.3VC_ADC
FL416
MPZ2012S221AT
+3.3VSC_ADC
C450
100nF (K)
10V
C449
100nF (K)
10V
C448
100nF (K)
10V
C447
100nF (K)
10V
NOT MOUNT
R454
1K (J)
R4703
1K (J)
NOT MOUNT
D402
1SS352 (TPH3, F)
V47GD0000702
PQ1M335M2SPQ
UREG
[LPQ1MXX5]
IC411
C433
1uF (K)
10V
C475
100pF (J)
50V
C437
68nF (K)
10V
C434
10uF (K)
10V
+3.3V_ANG
FL418
MPZ2012S221AT
+3.3V_PLL
FL419
MPZ2012S221AT
+3.3V_LVDS
[FL07A]
C444
CKD510JB1E104ST
FL420
MPZ2012S221AT
+3.3V_LVDS_PLL
FL421
MPZ2012S221AT
+3.3V_LBADC
C446
100nF (K)
10V
C445
100nF (K)
10V
C443
100nF (K)
10V

U04AS SIGNAL [407] CORTEZ REG 2 (PE0422)

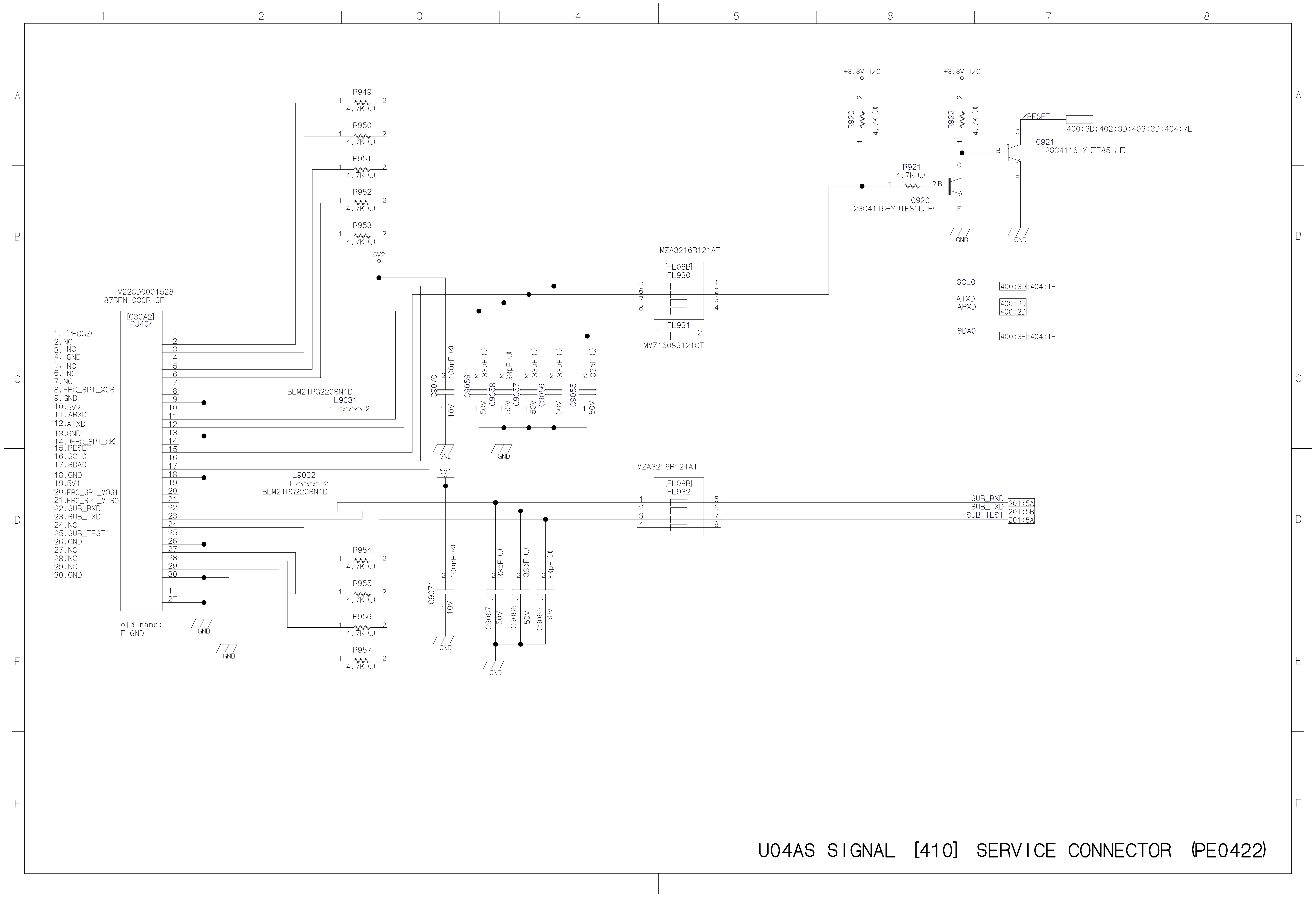

+3.3V_ADC
+3.3V_I/O
FL480
MPZ1608S221AT
R465
1K (J)
FL481
MPZ1608S221AT
NOT MOUNT
R4801
1K (J)
NOT MOUNT
C476
220nF (K)
10V
V47GD0001110
MP2105DJ-LF-Z
[L2105]
IC420
EN
IN
SW
FB
GND
5V2
FL432
BLM18EG221SN1D
C442
100nF (K)
C439
10V
10uF (K)
L431
VLCF5020T-4R7N1R7-1
C438
10V
10uF (K)
C440
10V
10uF (K)
C481
100nF (K)
R466
200K (F)
R467
750K (F)
R469
300K (F)
C460
50V
22pF (J)
R468
470K (F)
+2.5V_DDR_A
FL413
MPZ1608S221AT
CKD510JB1E104ST
[FL07A]
C461
old name:
C_DDR_GND
C788
100nF (K)
10V
C789
100nF (K)
10V
+2.5V_DDR
GND
TO U02A LOW_B [1] CONNECTOR (PE0473)
PJ50A → PJ50B
V22G30117020
[CN8]
PJ50A
C413
100nF (K)
C414
1nF (J)
C415
100nF (K)
22ohm
L401
NOT MOUNT
W418
W429
W430
W431
FRC_VCC_LCD
C416
100nF (K)
C872
16V
1uF (K)
FL870
BLM18EG221SN1D
FL871
BLM18EG221SN1D
FL872
NOT MOUNT
BLM18EG221SN1D
C874
2.2nF (K)
old name:
F_GND
1/22 電流容量不足 W429~W431追加

U04AS SIGNAL [408] CORTEZ REG 3 (PE0422)

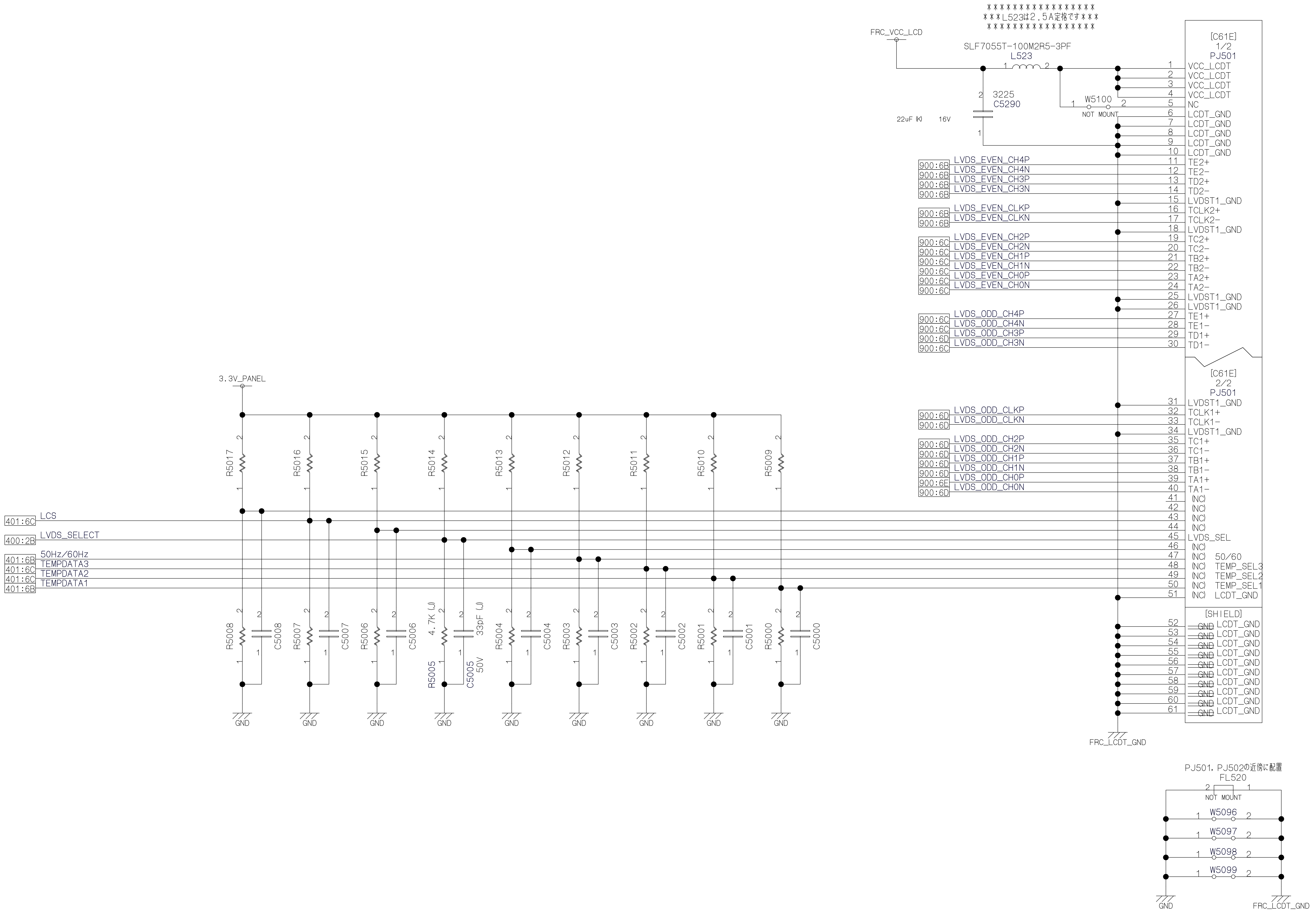

1
2
3
4
5
6
7
8
A
B
C
D
E
F
401:1A;402:3A;403:3B
OCMADDR [0-19]
+3.3V_I/O
1K (J)
OCMADDR [1]
OCMADDR [2]
OCMADDR [3]
OCMADDR [4]
4
3
2
1
5
6
7
8
RM408
[RMX4A]
R4005
1K (J)
OCMADDR [5]
R4006
1K (J)
OCMADDR [6]
R4010
1K (J)
OCMADDR [10]
R4011
1K (J)
OCMADDR [11]
R4000
1K (J)
OCMADDR [0]
R4007
1K (J)
OCMADDR [7]
R4008
1K (J)
OCMADDR [8]
R4009
1K (J)
OCMADDR [9]
GND
+3.3V_I/O
R4012
1K (J)
OCMADDR [12]
R4013
1K (J)
OCMADDR [13]
R4014
1K (J)
OCMADDR [14]
R4015
NOT MOUNT
OCMADDR [15]
R4016
NOT MOUNT
OCMADDR [16]
R4017
1K (J)
OCMADDR [17]
R4018
NOT MOUNT
OCMADDR [18]
R4019
1K (J)
OCMADDR [19]
R4130
NOT MOUNT
OCMADDR [13]
R4131
NOT MOUNT
OCMADDR [14]
R4132
1K (J)
OCMADDR [15]
R4133
1K (J)
OCMADDR [16]
R4134
NOT MOUNT
OCMADDR [17]
R4135
1K (J)
OCMADDR [18]
GND

U04AS SIGNAL [409] BOOT CONFIG (PE0422)

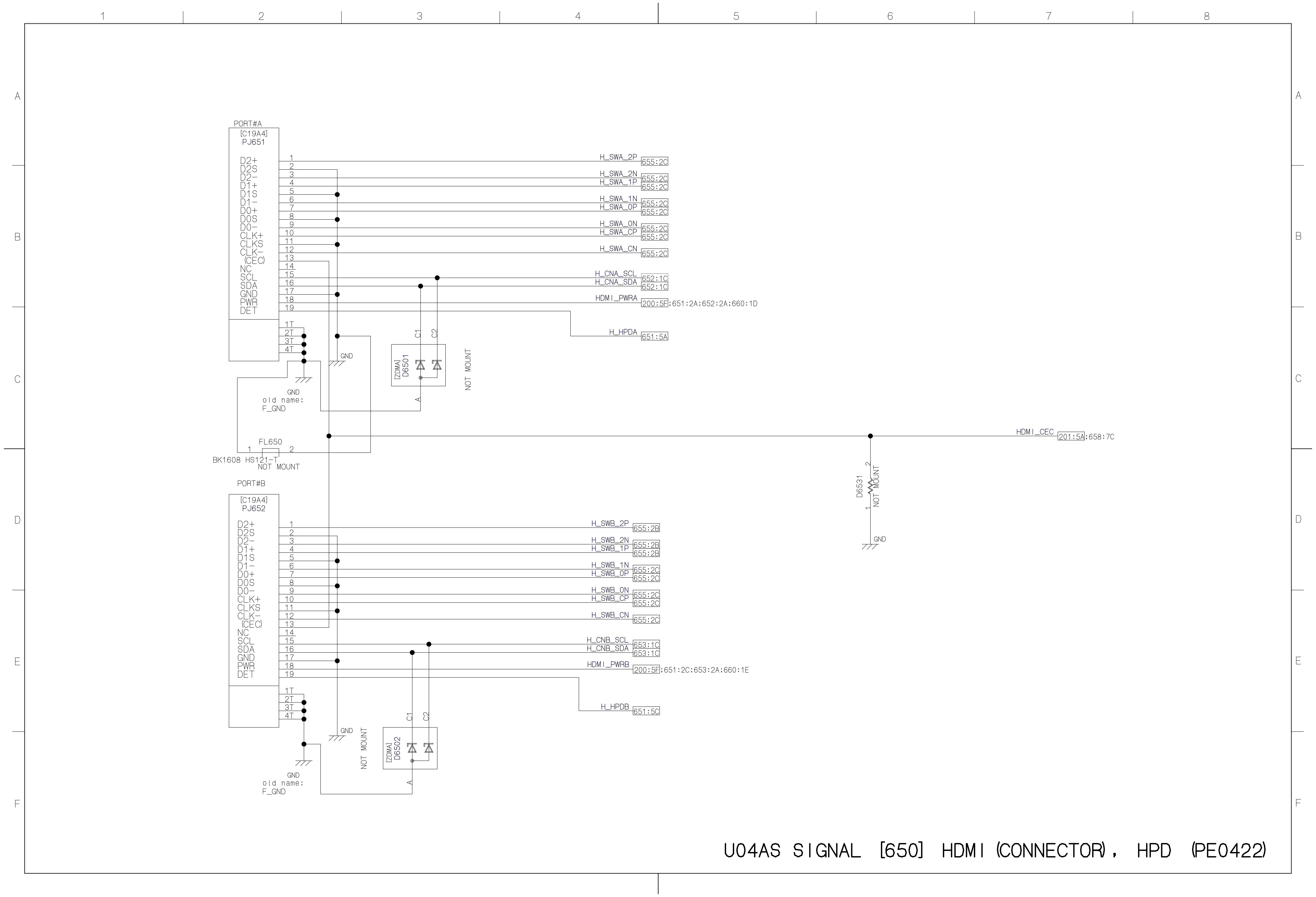
U04AS SIGNAL [410] SERVICE CONNECTOR (PE0422)



1
2
3
4
5
6
7
8
A
B
C
D
E
F
R949
R950
R951
R952
R953
4.7K (J)
5V2
V22GD0001528
87BFN-030R-3F
[C30A2]
PJ404
1. (PROGZ)
2.NC
3. NC
4. GND
5. NC
6. NC
7.NC
8.FRC_SPI_XCS
9.GND
10.5V2
11.ARXD
12.ATXD
13.GND
14.(FRC_SPI_CK)
15.RESET
16.SCL0
17.SDA0
18.GND
19.5V1
20.FRC_SPI_MOSI
21.FRC_SPI_MISO
22.SUB_RXD
23.SUB_TXD
24.NC
25.SUB_TEST
26.GND
27.NC
28.NC
29.NC
30.GND
1T
2T
old name:
F_GND
GND
BLM21PG220SN1D
L9031
L9032
BLM21PG220SN1D
5V1
R954
R955
R956
R957
C9070
100nF (K)
10V
C9059
C9058
C9057
C9056
C9055
33pF (J)
50V
C9071
C9067
C9066
C9065
MZA3216R121AT
[FL08B]
FL930
FL931
MMZ1608S121CT
FL932
SCL0
ATXD
ARXD
SDA0
400:3D;404:1E
400:2D
400:2D
400:3E;404:1E
SUB_RXD
SUB_TXD
SUB_TEST
201:5A
201:5B
201:5A
+3.3V_I/O
R920
R922
4.7K (J)
R921
4.7K (J)
Q920
2SC4116-Y (TE85L, F)
Q921
2SC4116-Y (TE85L, F)
/RESET
400:3D;402:3D;403:3D;404:7E
B
C
E

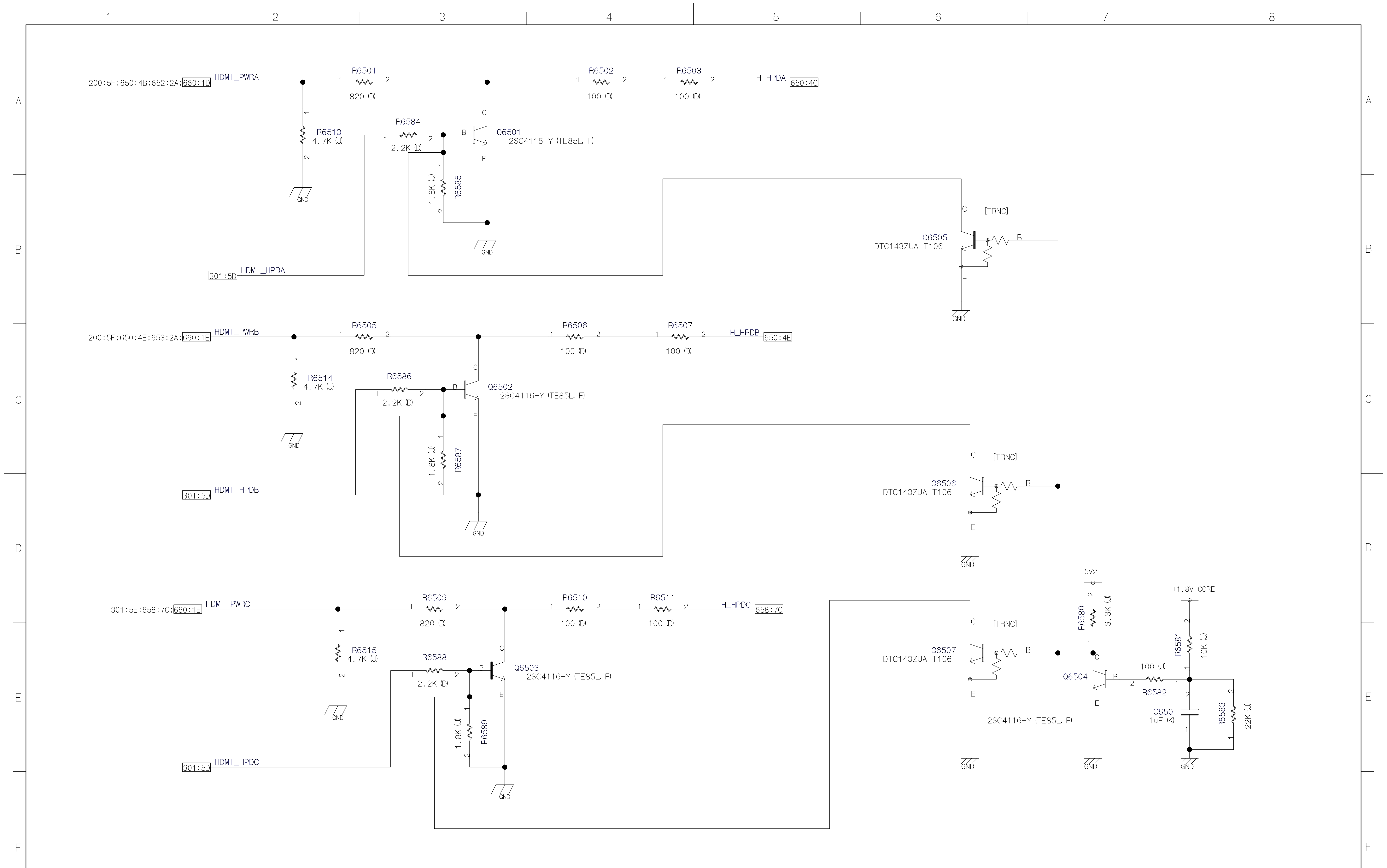

＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊
＊＊＊L523は2.5A定格です＊＊＊
＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊
FRC_VCC_LCD
SLF7055T-100M2R5-3PF
L523
3225
C5290
22uF (K)
16V
W5100
NOT MOUNT
[C61E]
1/2
PJ501
1 VCC_LCDT
2 VCC_LCDT
3 VCC_LCDT
4 VCC_LCDT
5 NC
6 LCDT_GND
7 LCDT_GND
8 LCDT_GND
9 LCDT_GND
10 LCDT_GND
11 TE2+
12 TE2-
13 TD2+
14 TD2-
15 LVDST1_GND
16 TCLK2+
17 TCLK2-
18 LVDST1_GND
19 TC2+
20 TC2-
21 TB2+
22 TB2-
23 TA2+
24 TA2-
25 LVDST1_GND
26 LVDST1_GND
27 TE1+
28 TE1-
29 TD1+
30 TD1-
900:6B LVDS_EVEN_CH4P
900:6B LVDS_EVEN_CH4N
900:6B LVDS_EVEN_CH3P
900:6B LVDS_EVEN_CH3N
900:6B LVDS_EVEN_CLKP
900:6B LVDS_EVEN_CLKN
900:6C LVDS_EVEN_CH2P
900:6C LVDS_EVEN_CH2N
900:6C LVDS_EVEN_CH1P
900:6C LVDS_EVEN_CH1N
900:6C LVDS_EVEN_CH0P
900:6C LVDS_EVEN_CH0N
900:6C LVDS_ODD_CH4P
900:6C LVDS_ODD_CH4N
900:6D LVDS_ODD_CH3P
900:6C LVDS_ODD_CH3N
[C61E]
2/2
PJ501
31 LVDST1_GND
32 TCLK1+
33 TCLK1-
34 LVDST1_GND
35 TC1+
36 TC1-
37 TB1+
38 TB1-
39 TA1+
40 TA1-
41 (NC)
42 (NC)
43 (NC)
44 (NC)
45 LVDS_SEL
46 (NC)
47 (NC) 50/60
48 (NC) TEMP_SEL3
49 (NC) TEMP_SEL2
50 (NC) TEMP_SEL1
51 (NC) LCDT_GND
[SHIELD]
52 GND LCDT_GND
53 GND LCDT_GND
54 GND LCDT_GND
55 GND LCDT_GND
56 GND LCDT_GND
57 GND LCDT_GND
58 GND LCDT_GND
59 GND LCDT_GND
60 GND LCDT_GND
61 GND LCDT_GND
900:6D LVDS_ODD_CLKP
900:6D LVDS_ODD_CLKN
900:6D LVDS_ODD_CH2P
900:6D LVDS_ODD_CH2N
900:6D LVDS_ODD_CH1P
900:6D LVDS_ODD_CH1N
900:6E LVDS_ODD_CH0P
900:6D LVDS_ODD_CH0N
FRC_LCDT_GND
3.3V_PANEL
R5017
R5016
R5015
R5014
R5013
R5012
R5011
R5010
R5009
401:6C LCS
400:2B LVDS_SELECT
401:6B 50Hz/60Hz
401:6C TEMPDATA3
401:6C TEMPDATA2
401:6B TEMPDATA1
R5008
C5008
R5007
C5007
R5006
C5006
4.7K (J)
R5005
33pF (J)
C5005
50V
R5004
C5004
R5003
C5003
R5002
C5002
R5001
C5001
R5000
C5000
GND
PJ501, PJ502の近傍に配置
FL520
NOT MOUNT
W5096
W5097
W5098
W5099
GND
FRC_LCDT_GND

U04AS SIGNAL [523] LVDS OUTPUT CONNECTOR (PE0422)

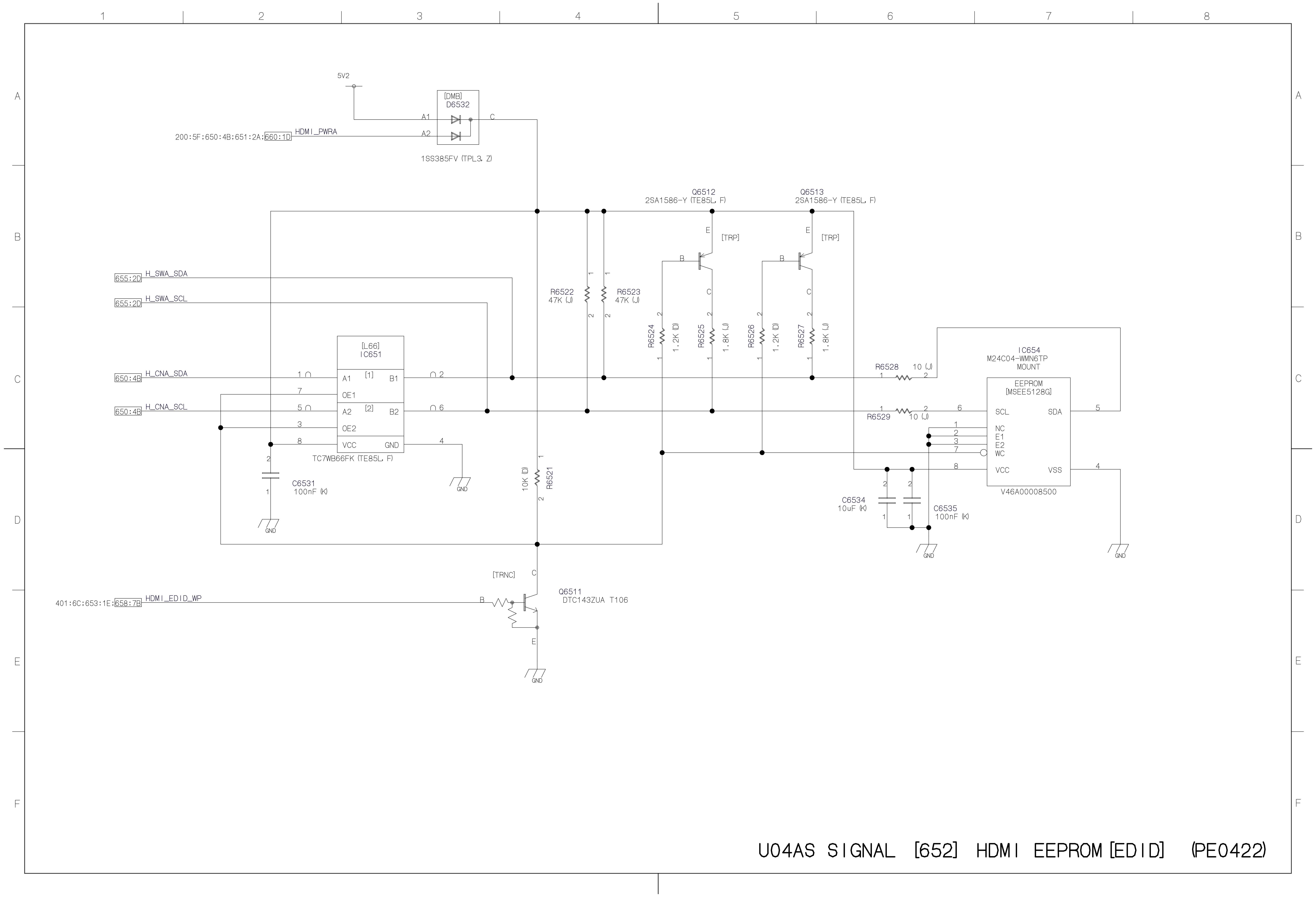


1
2
3
4
5
6
7
8
A
B
C
D
E
F
PORT#A
[C19A4]
PJ651
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
(CEC)
NC
SCL
SDA
GND
PWR
DET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
1T
2T
3T
4T
H_SWA_2P
655:2C
H_SWA_2N
655:2C
H_SWA_1P
655:2C
H_SWA_1N
655:2C
H_SWA_0P
655:2C
H_SWA_0N
655:2C
H_SWA_CP
655:2C
H_SWA_CN
655:2C
H_CNA_SCL
652:1C
H_CNA_SDA
652:1C
HDMI_PWRA
200:5F;651:2A;652:2A;660:1D
H_HPDA
651:5A
C1
C2
[ZDMA]
D6501
A
NOT MOUNT
GND
GND
old name:
F_GND
FL650
1
2
BK1608 HS121-T
NOT MOUNT
HDMI_CEC
201:5A;658:7C
D6531
2
1
NOT MOUNT
GND
PORT#B
[C19A4]
PJ652
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
(CEC)
NC
SCL
SDA
GND
PWR
DET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
1T
2T
3T
4T
H_SWB_2P
655:2B
H_SWB_2N
655:2B
H_SWB_1P
655:2B
H_SWB_1N
655:2C
H_SWB_0P
655:2C
H_SWB_0N
655:2C
H_SWB_CP
655:2C
H_SWB_CN
655:2C
H_CNB_SCL
653:1C
H_CNB_SDA
653:1C
HDMI_PWRB
200:5F;651:2C;653:2A;660:1E
H_HPDB
651:5C
GND
NOT MOUNT
C1
C2
[ZDMA]
D6502
A
GND
old name:
F_GND

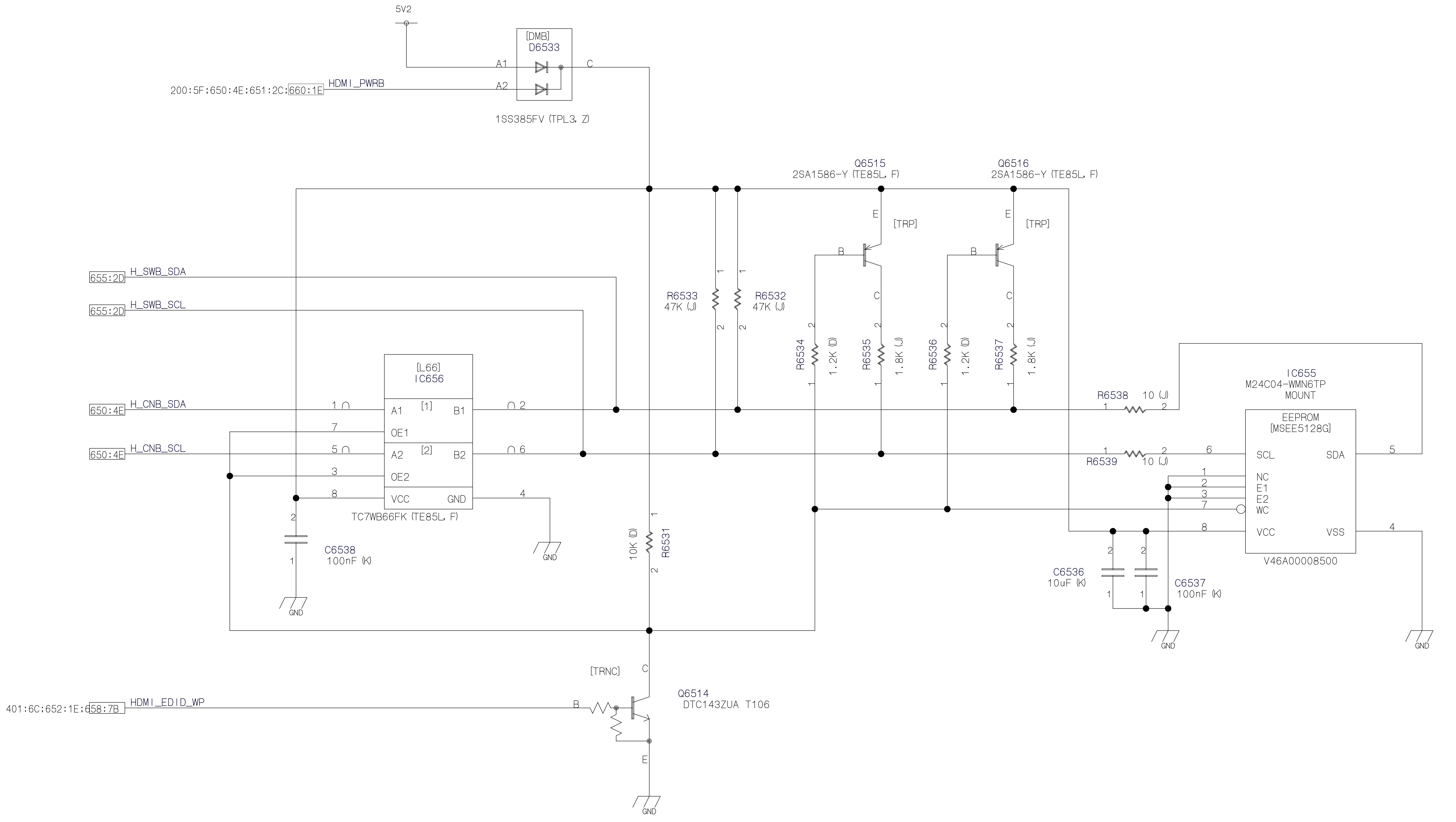
U04AS SIGNAL [650] HDMI (CONNECTOR), HPD (PE0422)


200:5F;650:4B;652:2A;660:1D
HDMI_PWRA
R6501
820 (D)
R6502
100 (D)
R6503
100 (D)
H_HPDA
650:4C
R6513
4.7K (J)
R6584
2.2K (D)
Q6501
2SC4116-Y (TE85L, F)
1.8K (J)
R6585
GND
301:5D
HDMI_HPDA
[TRNC]
Q6505
DTC143ZUA T106
200:5F;650:4E;653:2A;660:1E
HDMI_PWRB
R6505
820 (D)
R6506
100 (D)
R6507
100 (D)
H_HPDB
650:4E
R6514
4.7K (J)
R6586
2.2K (D)
Q6502
2SC4116-Y (TE85L, F)
1.8K (J)
R6587
301:5D
HDMI_HPDB
[TRNC]
Q6506
DTC143ZUA T106
301:5E;658:7C;660:1E
HDMI_PWRC
R6509
820 (D)
R6510
100 (D)
R6511
100 (D)
H_HPDC
658:7C
R6515
4.7K (J)
R6588
2.2K (D)
Q6503
2SC4116-Y (TE85L, F)
1.8K (J)
R6589
301:5D
HDMI_HPDC
[TRNC]
Q6507
DTC143ZUA T106
5V2
R6580
3.3K (J)
+1.8V_CORE
R6581
10K (J)
Q6504
2SC4116-Y (TE85L, F)
100 (J)
R6582
C650
1uF (K)
R6583
22K (J)
1 2 3 4 5 6 7 8
A B C D E F

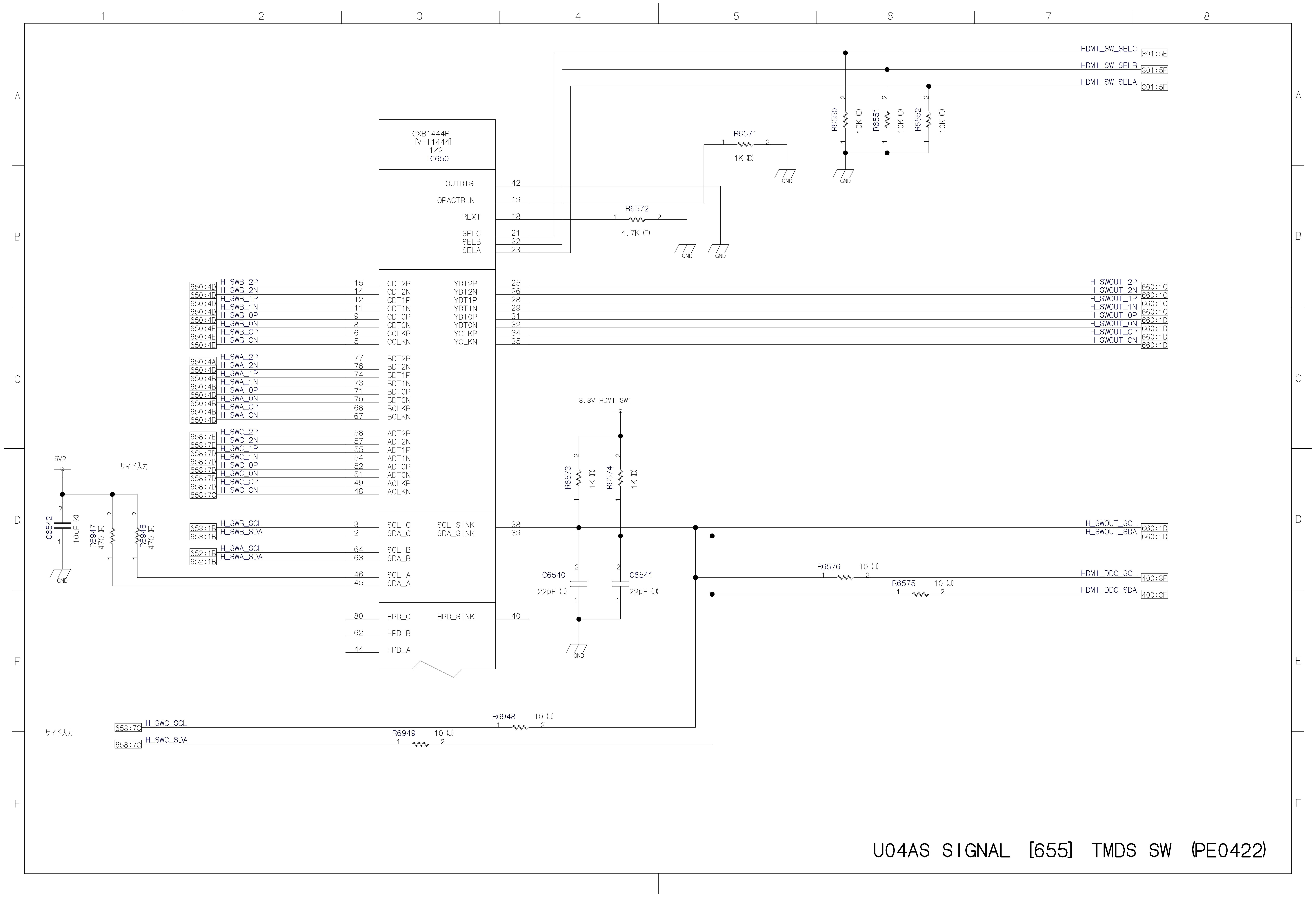
U04AS SIGNAL [651] HDMI#0 (TMDS_SW) (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
[DMB]
D6532
A1
A2
C
200:5F;650:4B;651:2A;660:1D
HDMI_PWRA
1SS385FV (TPL3, Z)
Q6512
2SA1586-Y (TE85L, F)
Q6513
2SA1586-Y (TE85L, F)
E
B
C
[TRP]
655:2D
H_SWA_SDA
655:2D
H_SWA_SCL
R6522
47K (J)
R6523
47K (J)
R6524
1.2K (D)
R6525
1.8K (J)
R6526
1.2K (D)
R6527
1.8K (J)
[L66]
IC651
650:4B
H_CNA_SDA
650:4B
H_CNA_SCL
A1
[1]
B1
OE1
A2
[2]
B2
OE2
VCC
GND
TC7WB66FK (TE85L, F)
C6531
100nF (K)
GND
R6521
10K (D)
R6528
10 (J)
R6529
10 (J)
IC654
M24C04-WMN6TP
MOUNT
EEPROM
[MSEE5128G]
SCL
SDA
NC
E1
E2
WC
VCC
VSS
V46A00008500
C6534
10uF (K)
C6535
100nF (K)
[TRNC]
Q6511
DTC143ZUA T106
401:6C;653:1E;658:7B
HDMI_EDID_WP

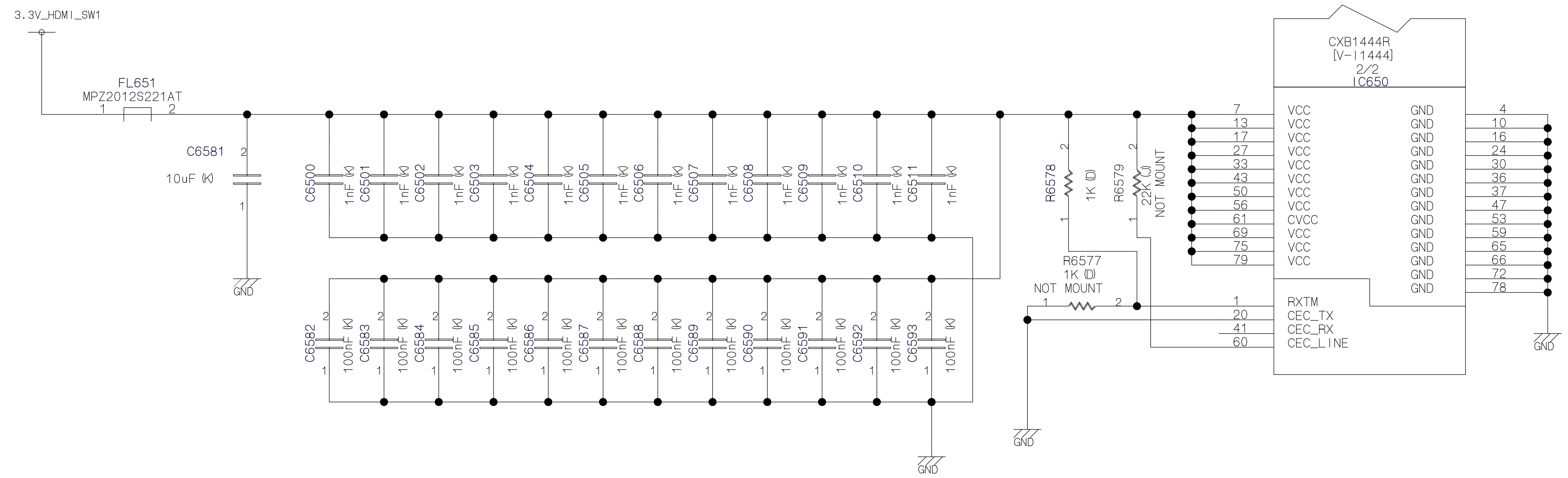
U04AS SIGNAL [652] HDMI EEPROM[EDID] (PE0422)


5V2
[DMB]
D6533
A1
A2
C
1SS385FV (TPL3, Z)
200:5F;650:4E;651:2C;660:1E
HDMI_PWRB
655:2D
H_SWB_SDA
655:2D
H_SWB_SCL
650:4E
H_CNB_SDA
650:4E
H_CNB_SCL
[L66]
IC656
A1
[1]
B1
OE1
A2
[2]
B2
OE2
VCC
GND
TC7WB66FK (TE85L, F)
C6538
100nF (K)
GND
R6533
47K (J)
R6532
47K (J)
R6531
10K (D)
Q6515
2SA1586-Y (TE85L, F)
Q6516
2SA1586-Y (TE85L, F)
[TRP]
[TRP]
E
B
C
R6534
1.2K (D)
R6535
1.8K (J)
R6536
1.2K (D)
R6537
1.8K (J)
R6538
10 (J)
R6539
10 (J)
IC655
M24C04-WMN6TP
MOUNT
EEPROM
[MSEE5128G]
SCL
SDA
NC
E1
E2
WC
VCC
VSS
V46A00008500
C6536
10uF (K)
C6537
100nF (K)
GND
[TRNC]
Q6514
DTC143ZUA T106
401:6C;652:1E;658:7B
HDMI_EDID_WP

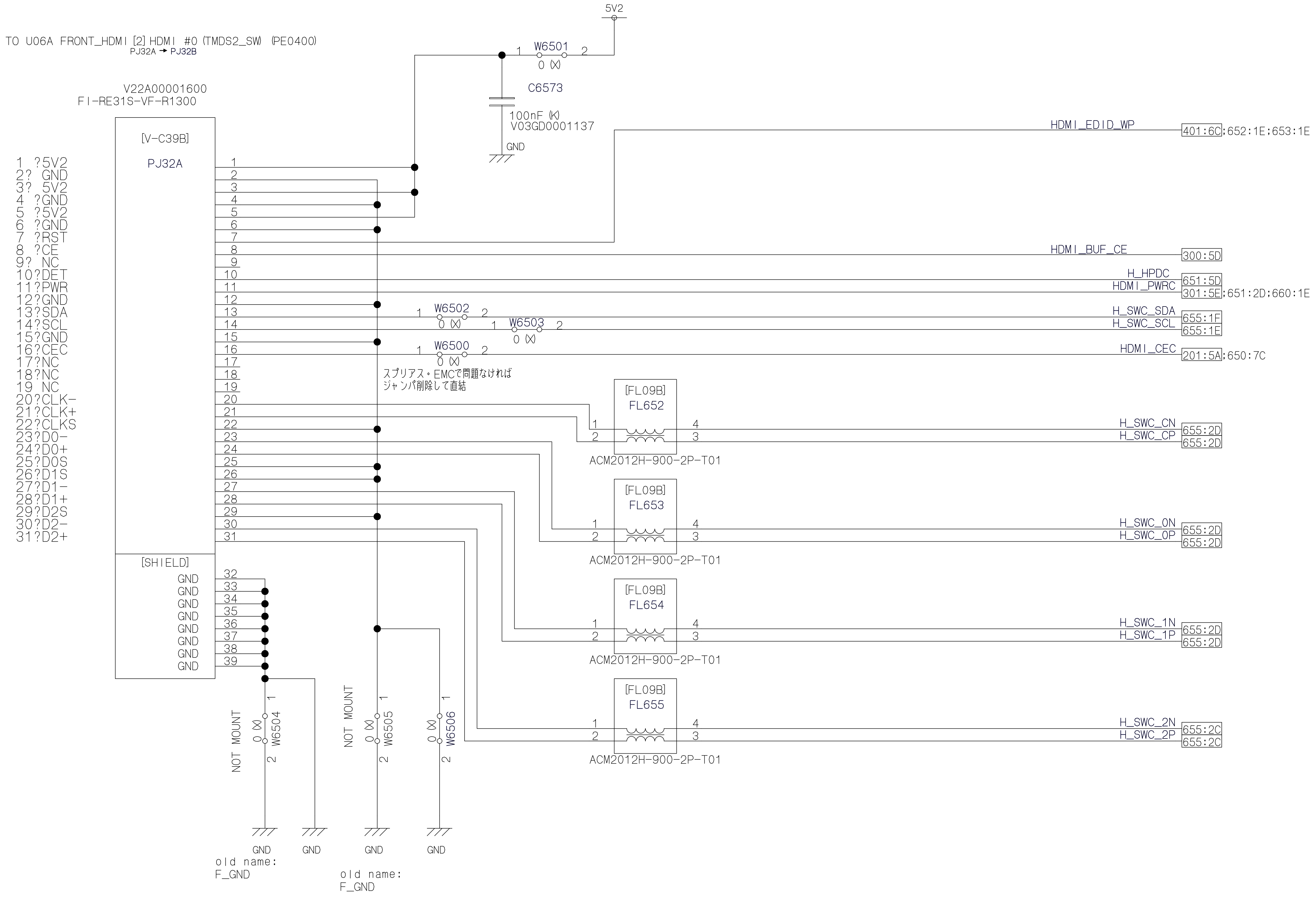
U04AS SIGNAL [653] HDMI EEPROM[EDID] (PE0422)


CXB1444R
[V-I1444]
1/2
IC650
OUTDIS 42
OPACTRLN 19
REXT 18
SELC 21
SELB 22
SELA 23
HDMI_SW_SELC 301:5E
HDMI_SW_SELB 301:5E
HDMI_SW_SELA 301:5F
R6550 10K (D)
R6551 10K (D)
R6552 10K (D)
R6571 1K (D)
R6572 4.7K (F)
GND
650:4D H_SWB_2P 15 CDT2P
650:4D H_SWB_2N 14 CDT2N
650:4D H_SWB_1P 12 CDT1P
650:4D H_SWB_1N 11 CDT1N
650:4D H_SWB_0P 9 CDT0P
650:4D H_SWB_0N 8 CDT0N
650:4E H_SWB_CP 6 CCLKP
650:4E H_SWB_CN 5 CCLKN
650:4A H_SWA_2P 77 BDT2P
650:4B H_SWA_2N 76 BDT2N
650:4B H_SWA_1P 74 BDT1P
650:4B H_SWA_1N 73 BDT1N
650:4B H_SWA_0P 71 BDT0P
650:4B H_SWA_0N 70 BDT0N
650:4B H_SWA_CP 68 BCLKP
650:4B H_SWA_CN 67 BCLKN
658:7E H_SWC_2P 58 ADT2P
658:7E H_SWC_2N 57 ADT2N
658:7D H_SWC_1P 55 ADT1P
658:7D H_SWC_1N 54 ADT1N
658:7D H_SWC_0P 52 ADT0P
658:7D H_SWC_0N 51 ADT0N
658:7D H_SWC_CP 49 ACLKP
658:7C H_SWC_CN 48 ACLKN
YDT2P 25 H_SWOUT_2P 660:1C
YDT2N 26 H_SWOUT_2N 660:1C
YDT1P 28 H_SWOUT_1P 660:1C
YDT1N 29 H_SWOUT_1N 660:1C
YDT0P 31 H_SWOUT_0P 660:1D
YDT0N 32 H_SWOUT_0N 660:1D
YCLKP 34 H_SWOUT_CP 660:1D
YCLKN 35 H_SWOUT_CN 660:1D
653:1B H_SWB_SCL 3 SCL_C
653:1B H_SWB_SDA 2 SDA_C
652:1B H_SWA_SCL 64 SCL_B
652:1B H_SWA_SDA 63 SDA_B
46 SCL_A
45 SDA_A
SCL_SINK 38 H_SWOUT_SCL 660:1D
SDA_SINK 39 H_SWOUT_SDA 660:1D
80 HPD_C
62 HPD_B
44 HPD_A
HPD_SINK 40
5V2
サイド入力
C6542 10uF (K)
R6947 470 (F)
R6946 470 (F)
3.3V_HDMI_SW1
R6573 1K (D)
R6574 1K (D)
C6540 22pF (J)
C6541 22pF (J)
R6576 10 (J)
R6575 10 (J)
HDMI_DDC_SCL 400:3F
HDMI_DDC_SDA 400:3F
サイド入力
658:7C H_SWC_SCL
658:7C H_SWC_SDA
R6948 10 (J)
R6949 10 (J)
1 2 3 4 5 6 7 8
A B C D E F

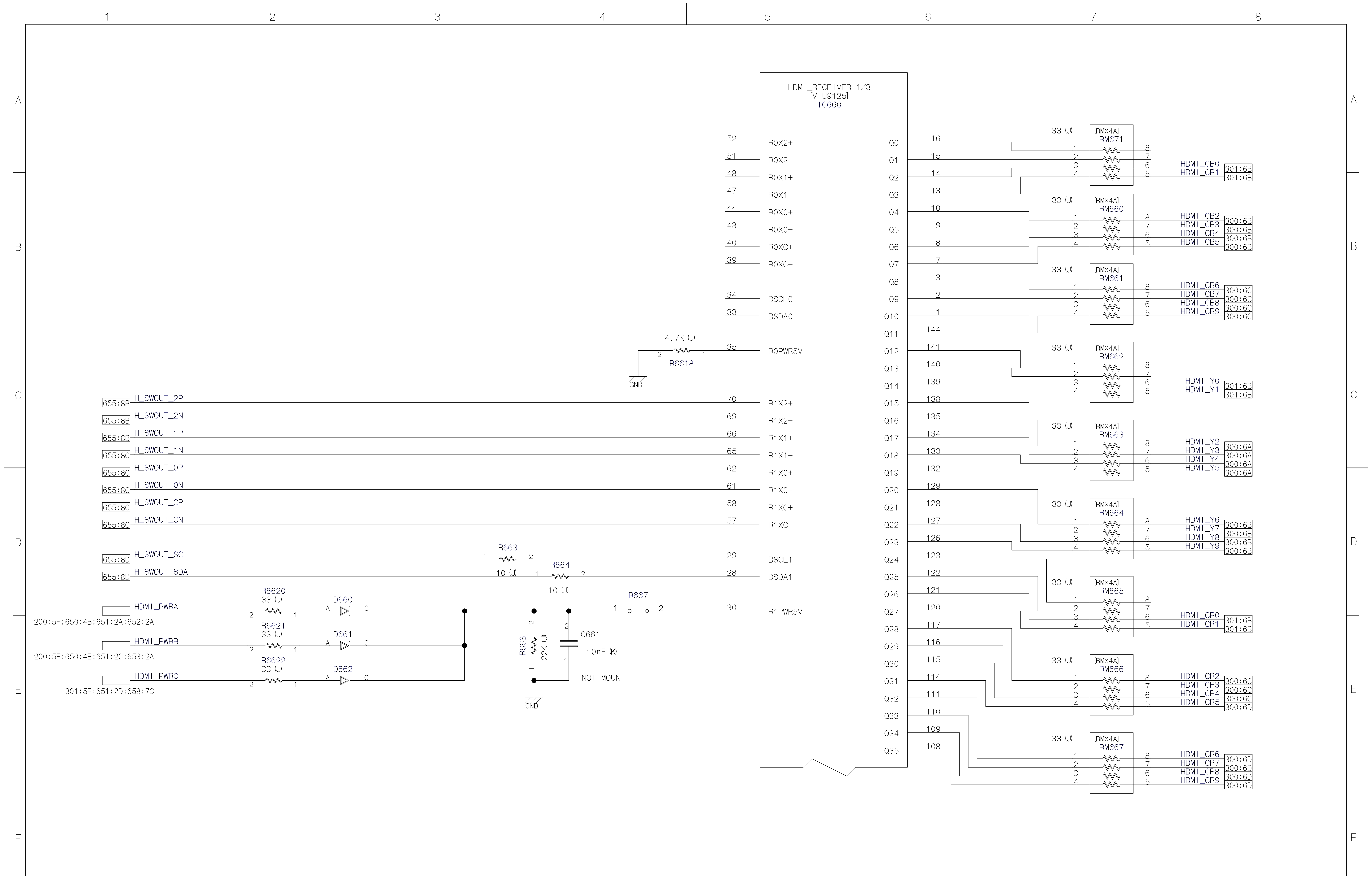
U04AS SIGNAL [655] TMDS SW (PE0422)


3.3V_HDMI_SW1
FL651
MPZ2012S221AT
C6581
10uF (K)
GND
C6500 1nF (K)
C6501 1nF (K)
C6502 1nF (K)
C6503 1nF (K)
C6504 1nF (K)
C6505 1nF (K)
C6506 1nF (K)
C6507 1nF (K)
C6508 1nF (K)
C6509 1nF (K)
C6510 1nF (K)
C6511 1nF (K)
C6582 100nF (K)
C6583 100nF (K)
C6584 100nF (K)
C6585 100nF (K)
C6586 100nF (K)
C6587 100nF (K)
C6588 100nF (K)
C6589 100nF (K)
C6590 100nF (K)
C6591 100nF (K)
C6592 100nF (K)
C6593 100nF (K)
R6578 1K (D)
R6579 22K (J) NOT MOUNT
R6577 1K (D) NOT MOUNT
CXB1444R
[V-I1444]
2/2
IC650
7 VCC
13 VCC
17 VCC
27 VCC
33 VCC
43 VCC
50 VCC
56 VCC
61 CVCC
69 VCC
75 VCC
79 VCC
1 RXTM
20 CEC_TX
41 CEC_RX
60 CEC_LINE
GND 4
GND 10
GND 16
GND 24
GND 30
GND 36
GND 37
GND 47
GND 53
GND 59
GND 65
GND 66
GND 72
GND 78

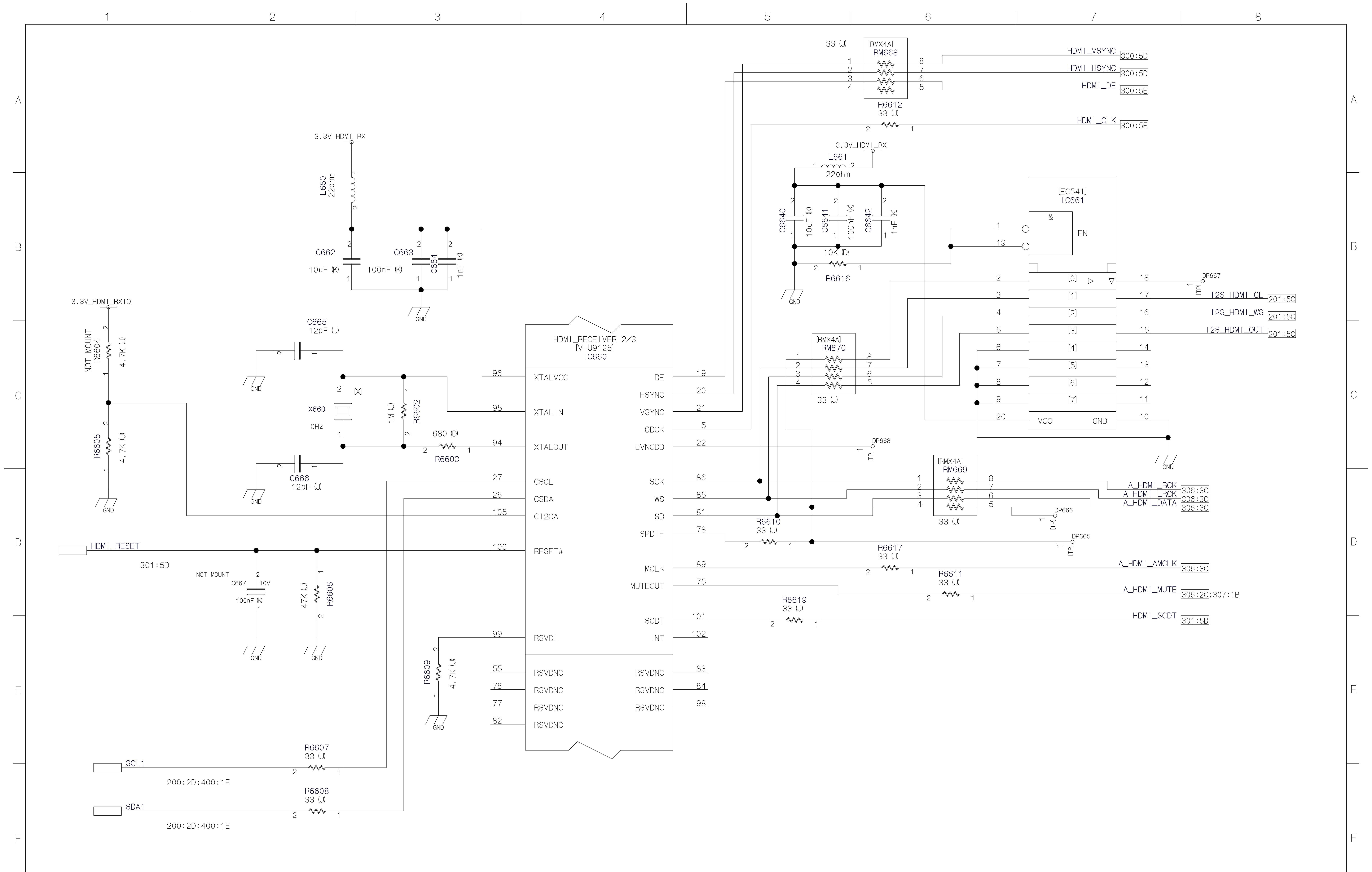
U04AS SIGNAL [657] TMDS SW (PE0422)


TO U06A FRONT_HDMI [2] HDMI #0 (TMDS2_SW) (PE0400)
PJ32A → PJ32B
V22A00001600
FI-RE31S-VF-R1300
[V-C39B]
PJ32A
1 ?5V2
2? GND
3? 5V2
4 ?GND
5 ?5V2
6 ?GND
7 ?RST
8 ?CE
9? NC
10?DET
11?PWR
12?GND
13?SDA
14?SCL
15?GND
16?CEC
17?NC
18?NC
19 NC
20?CLK-
21?CLK+
22?CLKS
23?D0-
24?D0+
25?D0S
26?D1S
27?D1-
28?D1+
29?D2S
30?D2-
31?D2+
[SHIELD]
GND
5V2
W6501
0 (X)
C6573
100nF (K)
V03GD0001137
W6502
W6503
W6500
スプリアス・EMCで問題なければ
ジャンパ削除して直結
HDMI_EDID_WP
401:6C;652:1E;653:1E
HDMI_BUF_CE
300:5D
H_HPDC
651:5D
HDMI_PWRC
301:5E;651:2D;660:1E
H_SWC_SDA
655:1F
H_SWC_SCL
655:1E
HDMI_CEC
201:5A;650:7C
[FL09B]
FL652
ACM2012H-900-2P-T01
H_SWC_CN
H_SWC_CP
655:2D
FL653
H_SWC_0N
H_SWC_0P
FL654
H_SWC_1N
H_SWC_1P
FL655
H_SWC_2N
H_SWC_2P
655:2C
NOT MOUNT
W6504
W6505
W6506
old name:
F_GND

U04AS SIGNAL [658] HDMI (To_Side_CONNECTOR) (PE0422)

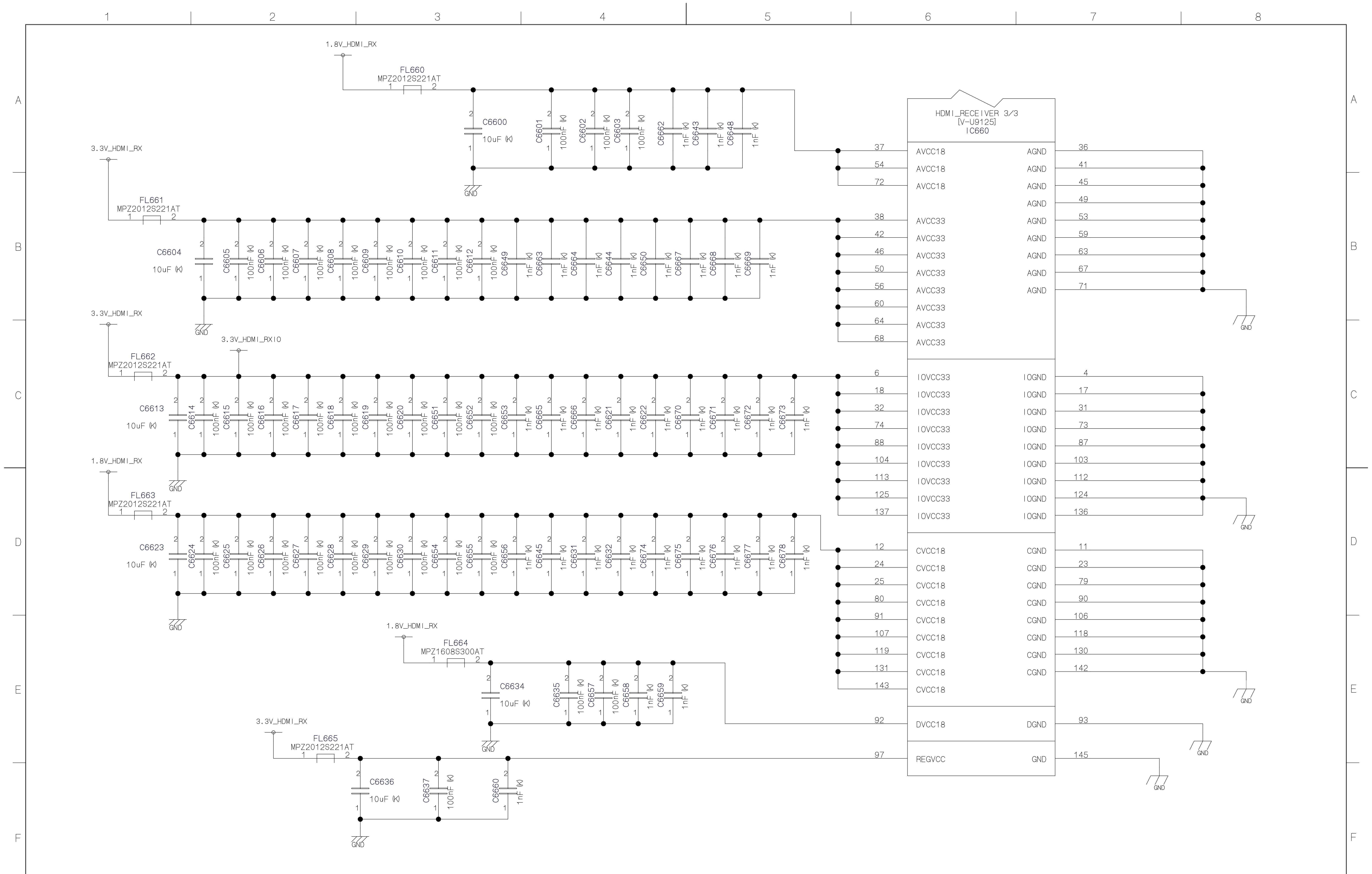

HDMI_RECEIVER 1/3
[V-U9125]
IC660
R0X2+
R0X2-
R0X1+
R0X1-
R0X0+
R0X0-
R0XC+
R0XC-
DSCL0
DSDA0
R0PWR5V
R1X2+
R1X2-
R1X1+
R1X1-
R1X0+
R1X0-
R1XC+
R1XC-
DSCL1
DSDA1
R1PWR5V
4.7K (J)
R6618
GND
H_SWOUT_2P
H_SWOUT_2N
H_SWOUT_1P
H_SWOUT_1N
H_SWOUT_0P
H_SWOUT_0N
H_SWOUT_CP
H_SWOUT_CN
H_SWOUT_SCL
H_SWOUT_SDA
655:8B
655:8C
655:8D
R663
10 (J)
R664
10 (J)
R667
HDMI_PWRA
HDMI_PWRB
HDMI_PWRC
200:5F:650:4B:651:2A:652:2A
200:5F:650:4E:651:2C:653:2A
301:5E:651:2D:658:7C
R6620
R6621
R6622
33 (J)
D660
D661
D662
R668
22K (J)
C661
10nF (K)
NOT MOUNT
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
Q20
Q21
Q22
Q23
Q24
Q25
Q26
Q27
Q28
Q29
Q30
Q31
Q32
Q33
Q34
Q35
[RMX4A]
RM671
RM660
RM661
RM662
RM663
RM664
RM665
RM666
RM667
HDMI_CB0
HDMI_CB1
HDMI_CB2
HDMI_CB3
HDMI_CB4
HDMI_CB5
HDMI_CB6
HDMI_CB7
HDMI_CB8
HDMI_CB9
HDMI_Y0
HDMI_Y1
HDMI_Y2
HDMI_Y3
HDMI_Y4
HDMI_Y5
HDMI_Y6
HDMI_Y7
HDMI_Y8
HDMI_Y9
HDMI_CR0
HDMI_CR1
HDMI_CR2
HDMI_CR3
HDMI_CR4
HDMI_CR5
HDMI_CR6
HDMI_CR7
HDMI_CR8
HDMI_CR9
301:6B
300:6B
300:6C
300:6A
300:6D

U04AS SIGNAL [660] HDMI Rx Video (PE0422)

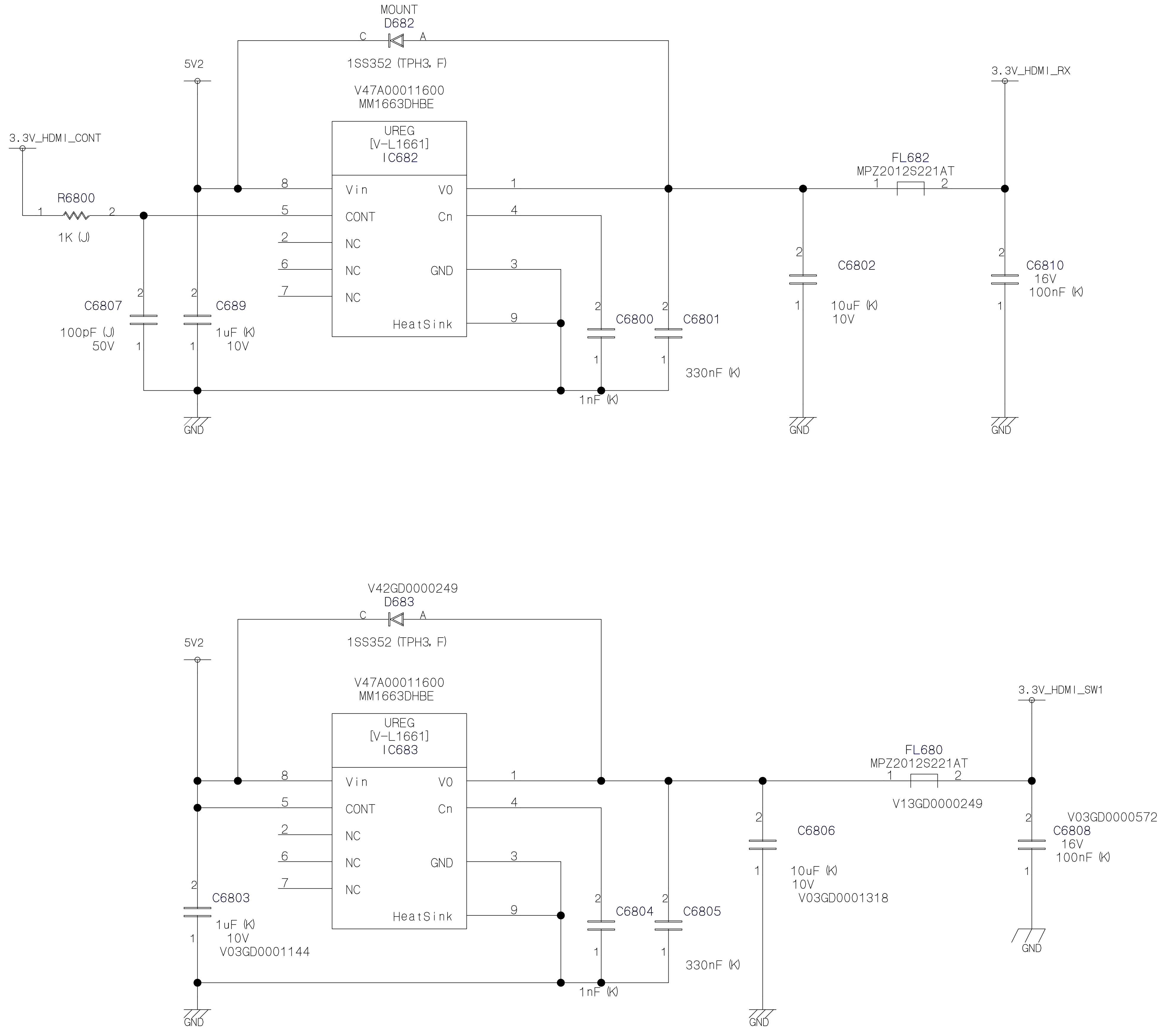


1
2
3
4
5
6
7
8
A
B
C
D
E
F
33 (J)
[RMX4A]
RM668
HDMI_VSYNC
300:5D
HDMI_HSYNC
300:5D
HDMI_DE
300:5E
R6612
33 (J)
HDMI_CLK
300:5E
3.3V_HDMI_RX
L660
22ohm
C662
10uF (K)
C663
100nF (K)
C664
1nF (K)
GND
3.3V_HDMI_RX
L661
22ohm
C6640
10uF (K)
C6641
100nF (K)
C6642
1nF (K)
10K (D)
R6616
GND
[EC541]
IC661
&
EN
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
VCC
GND
DP667
[TP]
I2S_HDMI_CL
201:5C
I2S_HDMI_WS
201:5C
I2S_HDMI_OUT
201:5C
3.3V_HDMI_RXIO
NOT MOUNT
R6604
4.7K (J)
R6605
4.7K (J)
C665
12pF (J)
C666
12pF (J)
X660
0Hz
[X]
1M (J)
R6602
680 (D)
R6603
HDMI_RECEIVER 2/3
[V-U9125]
IC660
XTALVCC
XTALIN
XTALOUT
CSCL
CSDA
CI2CA
RESET#
RSVDL
RSVDNC
DE
HSYNC
VSYNC
ODCK
EVNODD
SCK
WS
SD
SPDIF
MCLK
MUTEOUT
SCDT
INT
[RMX4A]
RM670
33 (J)
DP668
[TP]
[RMX4A]
RM669
33 (J)
A_HDMI_BCK
A_HDMI_LRCK
A_HDMI_DATA
306:3C
DP666
[TP]
R6610
33 (J)
R6617
33 (J)
DP665
[TP]
A_HDMI_AMCLK
306:3C
R6611
33 (J)
A_HDMI_MUTE
306:2C
307:1B
R6619
33 (J)
HDMI_SCDT
301:5D
HDMI_RESET
301:5D
NOT MOUNT
C667
10V
100nF (K)
47K (J)
R6606
R6609
4.7K (J)
SCL1
R6607
33 (J)
200:2D:400:1E
SDA1
R6608
33 (J)
200:2D:400:1E

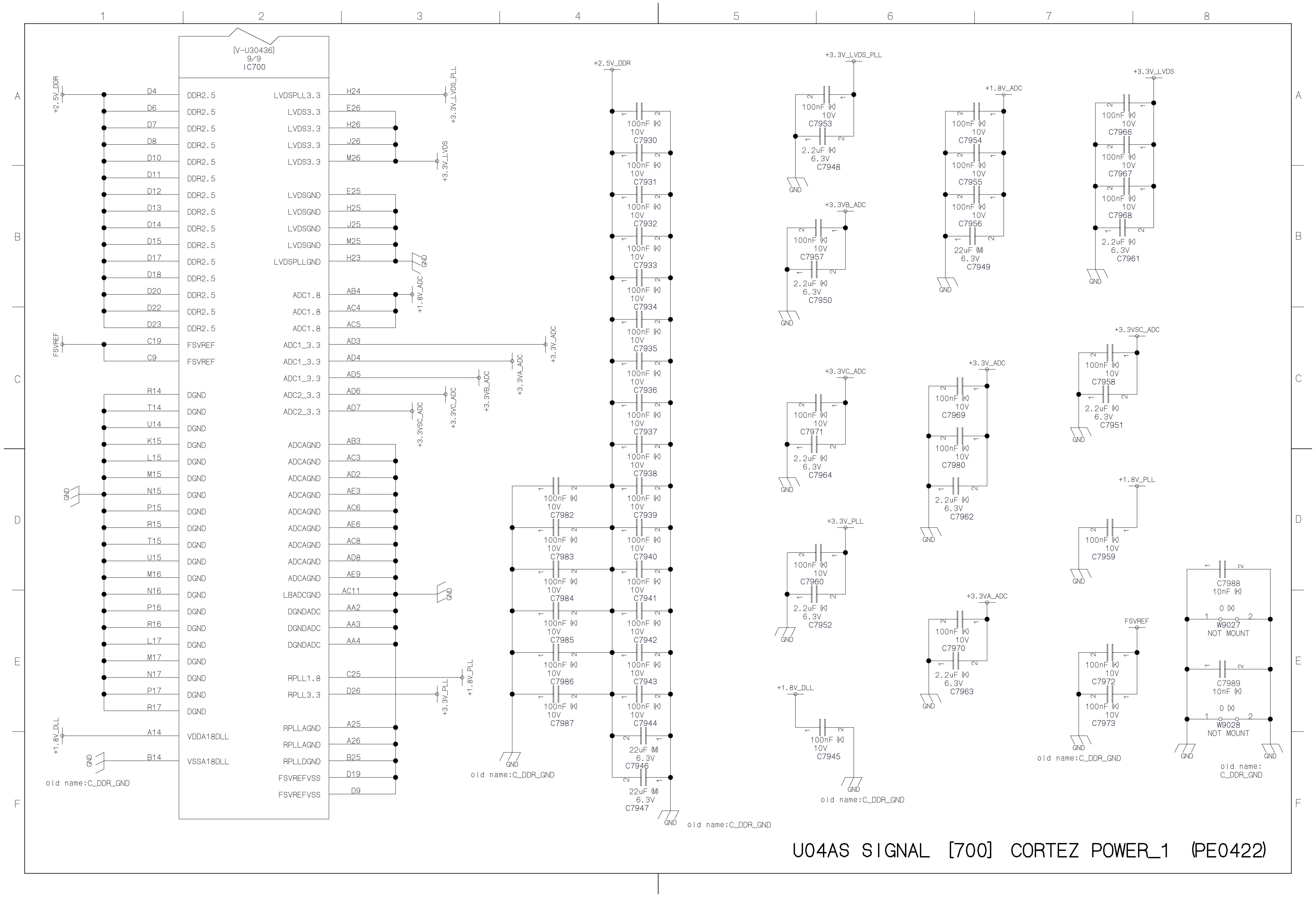
U04AS SIGNAL [661] HDMI Rx Audio, I2C (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
1.8V_HDMI_RX
FL660
MPZ2012S221AT
C6600
10uF (K)
C6601
C6602
C6603
C6662
C6643
C6648
100nF (K)
1nF (K)
GND
3.3V_HDMI_RX
FL661
MPZ2012S221AT
C6604
10uF (K)
C6605
C6606
C6607
C6608
C6609
C6610
C6611
C6612
C6649
C6663
C6664
C6644
C6650
C6667
C6668
C6669
3.3V_HDMI_RX
FL662
MPZ2012S221AT
3.3V_HDMI_RXIO
C6613
10uF (K)
C6614
C6615
C6616
C6617
C6618
C6619
C6620
C6651
C6652
C6653
C6665
C6666
C6621
C6622
C6670
C6671
C6672
C6673
1.8V_HDMI_RX
FL663
MPZ2012S221AT
C6623
10uF (K)
C6624
C6625
C6626
C6627
C6628
C6629
C6630
C6654
C6655
C6656
C6645
C6631
C6632
C6674
C6675
C6676
C6677
C6678
1.8V_HDMI_RX
FL664
MPZ1608S300AT
C6634
10uF (K)
C6635
C6657
C6658
C6659
3.3V_HDMI_RX
FL665
MPZ2012S221AT
C6636
10uF (K)
C6637
C6660
HDMI_RECEIVER 3/3
[V-U9125]
IC660
37 AVCC18
54 AVCC18
72 AVCC18
38 AVCC33
42 AVCC33
46 AVCC33
50 AVCC33
56 AVCC33
60 AVCC33
64 AVCC33
68 AVCC33
AGND 36
AGND 41
AGND 45
AGND 49
AGND 53
AGND 59
AGND 63
AGND 67
AGND 71
6 IOVCC33
18 IOVCC33
32 IOVCC33
74 IOVCC33
88 IOVCC33
104 IOVCC33
113 IOVCC33
125 IOVCC33
137 IOVCC33
IOGND 4
IOGND 17
IOGND 31
IOGND 73
IOGND 87
IOGND 103
IOGND 112
IOGND 124
IOGND 136
12 CVCC18
24 CVCC18
25 CVCC18
80 CVCC18
91 CVCC18
107 CVCC18
119 CVCC18
131 CVCC18
143 CVCC18
CGND 11
CGND 23
CGND 79
CGND 90
CGND 106
CGND 118
CGND 130
CGND 142
92 DVCC18
DGND 93
97 REGVCC
GND 145

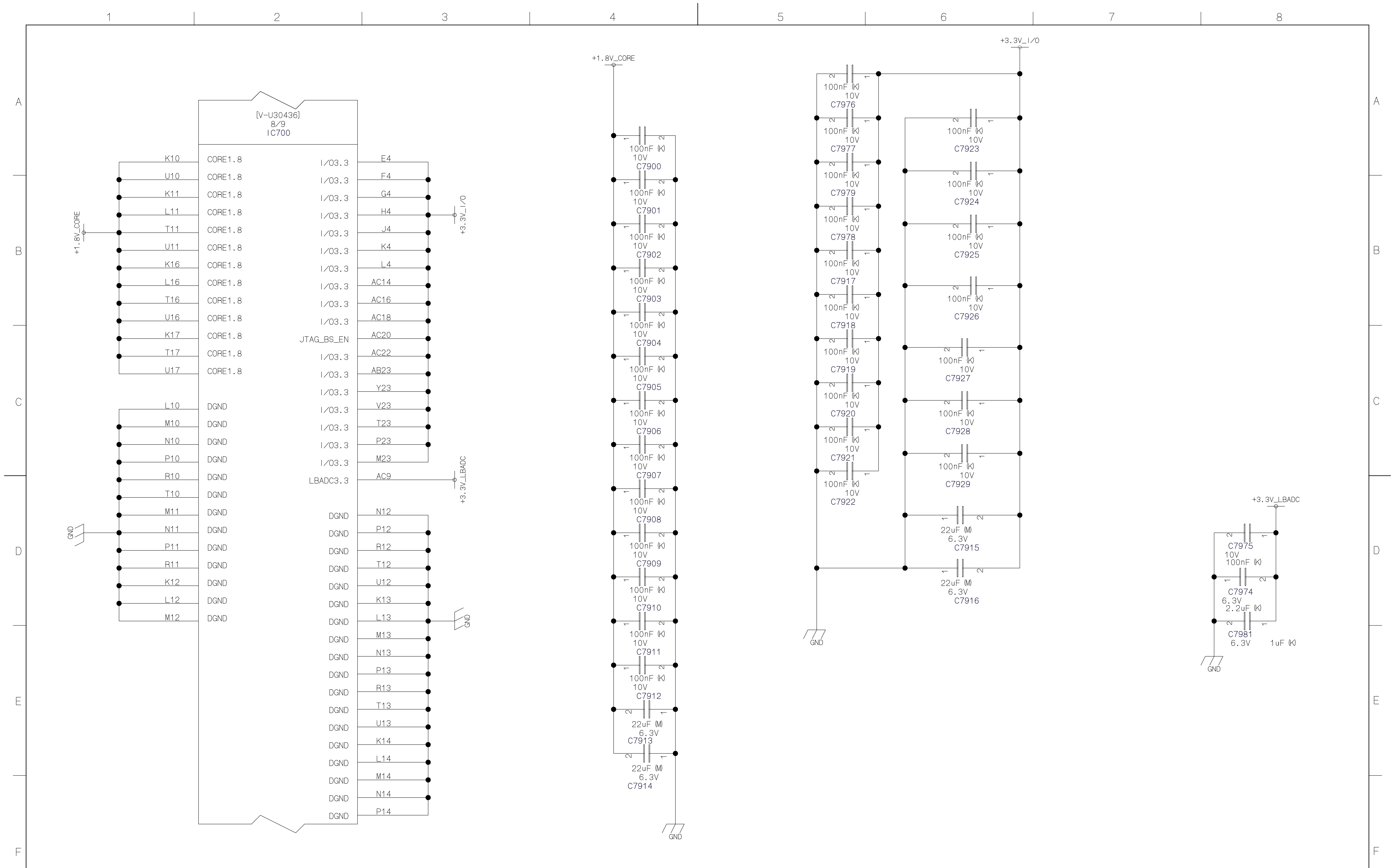
U04AS SIGNAL [662] HDMI Rx Power (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
MOUNT
D682
C
A
1SS352 (TPH3, F)
5V2
V47A00011600
MM1663DHBE
UREG
[V-L1661]
IC682
3.3V_HDMI_CONT
R6800
1K (J)
Vin
CONT
NC
NC
NC
V0
Cn
GND
HeatSink
C6807
100pF (J)
50V
C689
1uF (K)
10V
C6800
1nF (K)
C6801
330nF (K)
GND
3.3V_HDMI_RX
FL682
MPZ2012S221AT
C6802
10uF (K)
10V
C6810
16V
100nF (K)
V42GD0000249
D683
1SS352 (TPH3, F)
V47A00011600
MM1663DHBE
UREG
[V-L1661]
IC683
C6803
1uF (K)
10V
V03GD0001144
C6804
1nF (K)
C6805
330nF (K)
3.3V_HDMI_SW1
FL680
MPZ2012S221AT
V13GD0000249
C6806
10uF (K)
10V
V03GD0001318
V03GD0000572
C6808
16V
100nF (K)

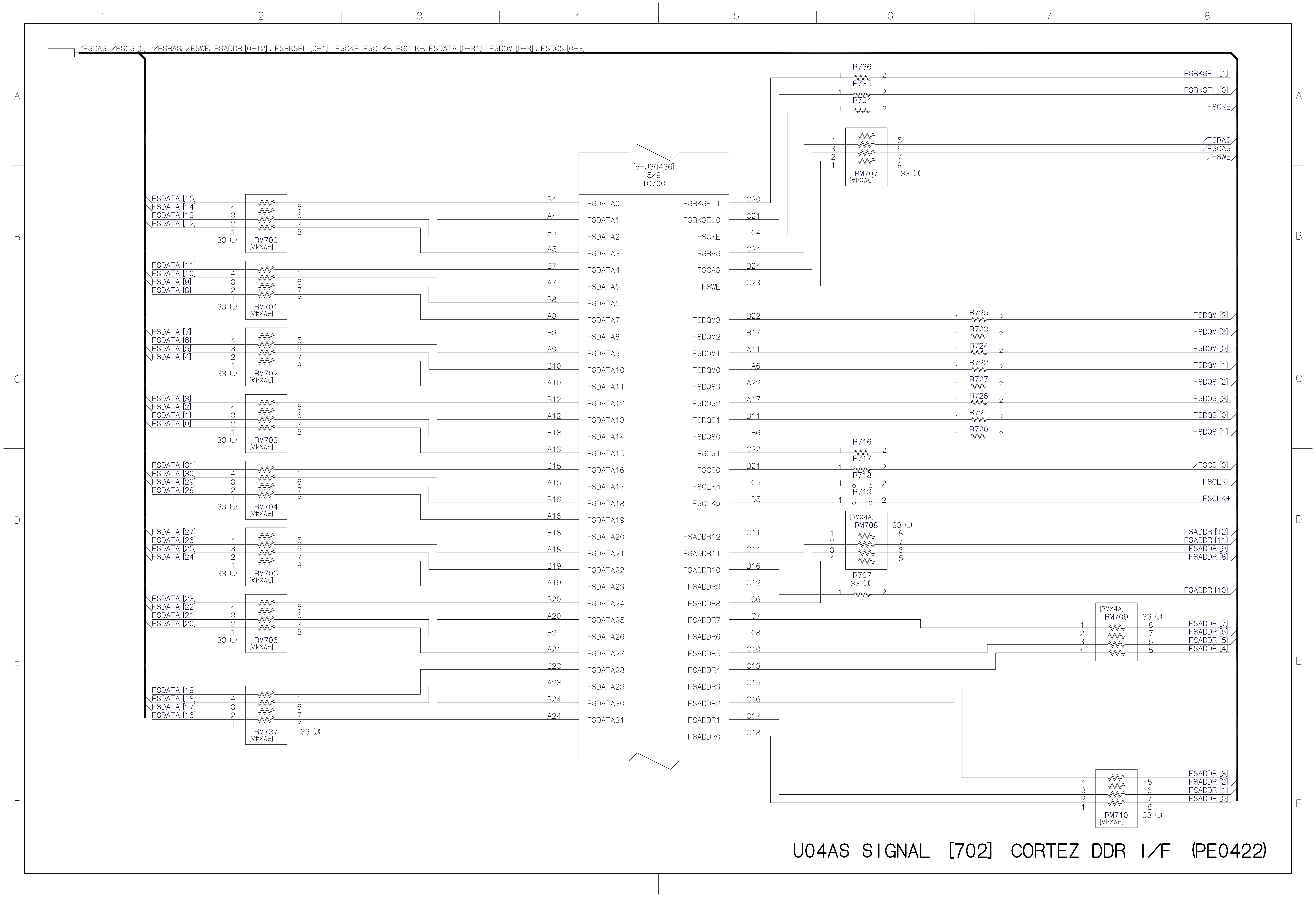
U04AS SIGNAL [680] HDMI Power Reg. (PE0422)


[V-U30436]
9/9
IC700
+2.5V_DDR
D4 D6 D7 D8 D10 D11 D12 D13 D14 D15 D17 D18 D20 D22 D23
DDR2.5
FSVREF
C19 C9
R14 T14 U14 K15 L15 M15 N15 P15 R15 T15 U15 M16 N16 P16 R16 L17 M17 N17 P17 R17
DGND
+1.8V_DLL
A14 VDDA18DLL
B14 VSSA18DLL
GND
old name:C_DDR_GND
H24 LVDSPLL3.3
E26 H26 J26 M26 LVDS3.3
E25 H25 J25 M25 LVDSGND
H23 LVDSPLLGND
AB4 AC4 AC5 ADC1.8
AD3 AD4 AD5 ADC1_3.3
AD6 AD7 ADC2_3.3
AB3 AC3 AD2 AE3 AC6 AE6 AC8 AD8 AE9 ADCAGND
AC11 LBADCGND
AA2 AA3 AA4 DGNDADC
C25 RPLL1.8
D26 RPLL3.3
A25 A26 RPLLAGND
B25 RPLLDGND
D19 D9 FSVREFVSS
+3.3V_LVDS_PLL
+3.3V_LVDS
+1.8V_ADC
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
+3.3V_PLL
+1.8V_PLL
C7930 C7931 C7932 C7933 C7934 C7935 C7936 C7937 C7938 C7939 C7940 C7941 C7942 C7943 C7944
100nF (K) 10V
C7946 C7947 22uF (M) 6.3V
C7982 C7983 C7984 C7985 C7986 C7987
C7953 C7948
C7957 C7950
C7954 C7955 C7956 C7949
C7966 C7967 C7968 C7961
2.2uF (K) 6.3V
C7958 C7951
C7971 C7964
C7969 C7980 C7962
C7960 C7952
C7959
C7970 C7963
C7945
C7972 C7973
C7988 10nF (K)
W9027 0 (X) NOT MOUNT
C7989 10nF (K)
W9028 0 (X) NOT MOUNT
old name:
C_DDR_GND
1 2 3 4 5 6 7 8
A B C D E F

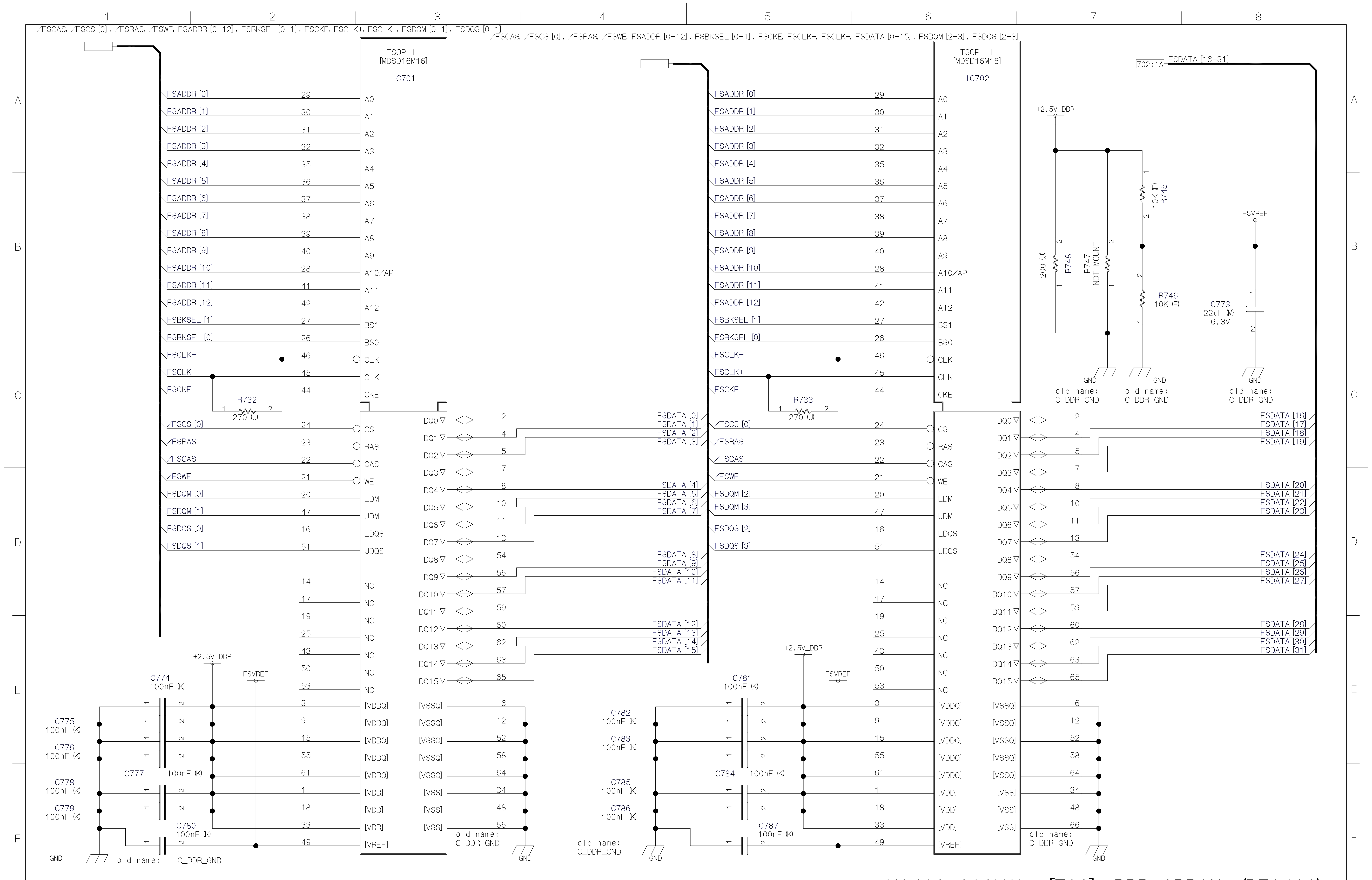
U04AS SIGNAL [700] CORTEZ POWER_1 (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-U30436]
8/9
IC700
K10 CORE1.8
U10 CORE1.8
K11 CORE1.8
L11 CORE1.8
T11 CORE1.8
U11 CORE1.8
K16 CORE1.8
L16 CORE1.8
T16 CORE1.8
U16 CORE1.8
K17 CORE1.8
T17 CORE1.8
U17 CORE1.8
+1.8V_CORE
L10 DGND
M10 DGND
N10 DGND
P10 DGND
R10 DGND
T10 DGND
M11 DGND
N11 DGND
P11 DGND
R11 DGND
K12 DGND
L12 DGND
M12 DGND
GND
I/O3.3 E4
I/O3.3 F4
I/O3.3 G4
I/O3.3 H4
I/O3.3 J4
I/O3.3 K4
I/O3.3 L4
I/O3.3 AC14
I/O3.3 AC16
I/O3.3 AC18
JTAG_BS_EN AC20
I/O3.3 AC22
I/O3.3 AB23
I/O3.3 Y23
I/O3.3 V23
I/O3.3 T23
I/O3.3 P23
I/O3.3 M23
LBADC3.3 AC9
+3.3V_I/O
+3.3V_LBADC
DGND N12
DGND P12
DGND R12
DGND T12
DGND U12
DGND K13
DGND L13
DGND M13
DGND N13
DGND P13
DGND R13
DGND T13
DGND U13
DGND K14
DGND L14
DGND M14
DGND N14
DGND P14
GND
+1.8V_CORE
C7900 100nF (K) 10V
C7901 100nF (K) 10V
C7902 100nF (K) 10V
C7903 100nF (K) 10V
C7904 100nF (K) 10V
C7905 100nF (K) 10V
C7906 100nF (K) 10V
C7907 100nF (K) 10V
C7908 100nF (K) 10V
C7909 100nF (K) 10V
C7910 100nF (K) 10V
C7911 100nF (K) 10V
C7912 100nF (K) 10V
C7913 22uF (M) 6.3V
C7914 22uF (M) 6.3V
GND
+3.3V_I/O
C7976 100nF (K) 10V
C7977 100nF (K) 10V
C7979 100nF (K) 10V
C7978 100nF (K) 10V
C7917 100nF (K) 10V
C7918 100nF (K) 10V
C7919 100nF (K) 10V
C7920 100nF (K) 10V
C7921 100nF (K) 10V
C7922 100nF (K) 10V
C7923 100nF (K) 10V
C7924 100nF (K) 10V
C7925 100nF (K) 10V
C7926 100nF (K) 10V
C7927 100nF (K) 10V
C7928 100nF (K) 10V
C7929 100nF (K) 10V
C7915 22uF (M) 6.3V
C7916 22uF (M) 6.3V
GND
+3.3V_LBADC
C7975 10V 100nF (K)
C7974 6.3V 2.2uF (K)
C7981 6.3V 1uF (K)
GND

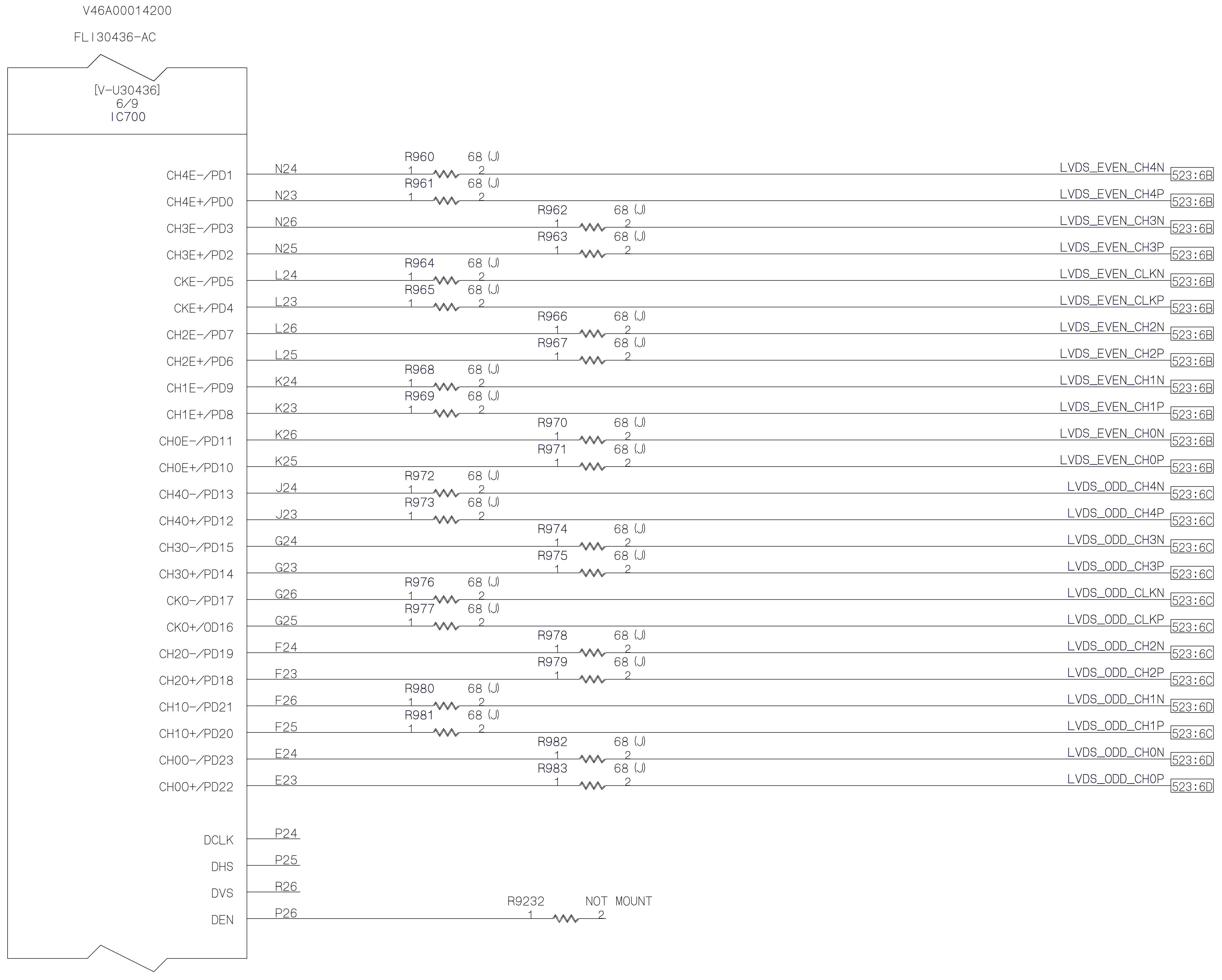
U04AS SIGNAL [701] CORTEZ POWER_2 (PE0422)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-31], FSDQM [0-3], FSDQS [0-3]
[V-U30436]
5/9
IC700
FSDATA0
FSDATA1
FSDATA2
FSDATA3
FSDATA4
FSDATA5
FSDATA6
FSDATA7
FSDATA8
FSDATA9
FSDATA10
FSDATA11
FSDATA12
FSDATA13
FSDATA14
FSDATA15
FSDATA16
FSDATA17
FSDATA18
FSDATA19
FSDATA20
FSDATA21
FSDATA22
FSDATA23
FSDATA24
FSDATA25
FSDATA26
FSDATA27
FSDATA28
FSDATA29
FSDATA30
FSDATA31
FSBKSEL1
FSBKSEL0
FSCKE
FSRAS
FSCAS
FSWE
FSDQM3
FSDQM2
FSDQM1
FSDQM0
FSDQS3
FSDQS2
FSDQS1
FSDQS0
FSCS1
FSCS0
FSCLKn
FSCLKp
FSADDR12
FSADDR11
FSADDR10
FSADDR9
FSADDR8
FSADDR7
FSADDR6
FSADDR5
FSADDR4
FSADDR3
FSADDR2
FSADDR1
FSADDR0
RM700
RM701
RM702
RM703
RM704
RM705
RM706
RM737
RM707
RM708
RM709
RM710
[RMX4A]
33 (J)
R736
R735
R734
R725
R723
R724
R722
R727
R726
R721
R720
R716
R717
R718
R719
R707
FSBKSEL [1]
FSBKSEL [0]
FSCKE
/FSRAS
/FSCAS
/FSWE
FSDQM [2]
FSDQM [3]
FSDQM [0]
FSDQM [1]
FSDQS [2]
FSDQS [3]
FSDQS [0]
FSDQS [1]
/FSCS [0]
FSCLK-
FSCLK+
FSADDR [12]
FSADDR [11]
FSADDR [9]
FSADDR [8]
FSADDR [10]
FSADDR [7]
FSADDR [6]
FSADDR [5]
FSADDR [4]
FSADDR [3]
FSADDR [2]
FSADDR [1]
FSADDR [0]
FSDATA [15]
FSDATA [14]
FSDATA [13]
FSDATA [12]
FSDATA [11]
FSDATA [10]
FSDATA [9]
FSDATA [8]
FSDATA [7]
FSDATA [6]
FSDATA [5]
FSDATA [4]
FSDATA [3]
FSDATA [2]
FSDATA [1]
FSDATA [0]
FSDATA [31]
FSDATA [30]
FSDATA [29]
FSDATA [28]
FSDATA [27]
FSDATA [26]
FSDATA [25]
FSDATA [24]
FSDATA [23]
FSDATA [22]
FSDATA [21]
FSDATA [20]
FSDATA [19]
FSDATA [18]
FSDATA [17]
FSDATA [16]

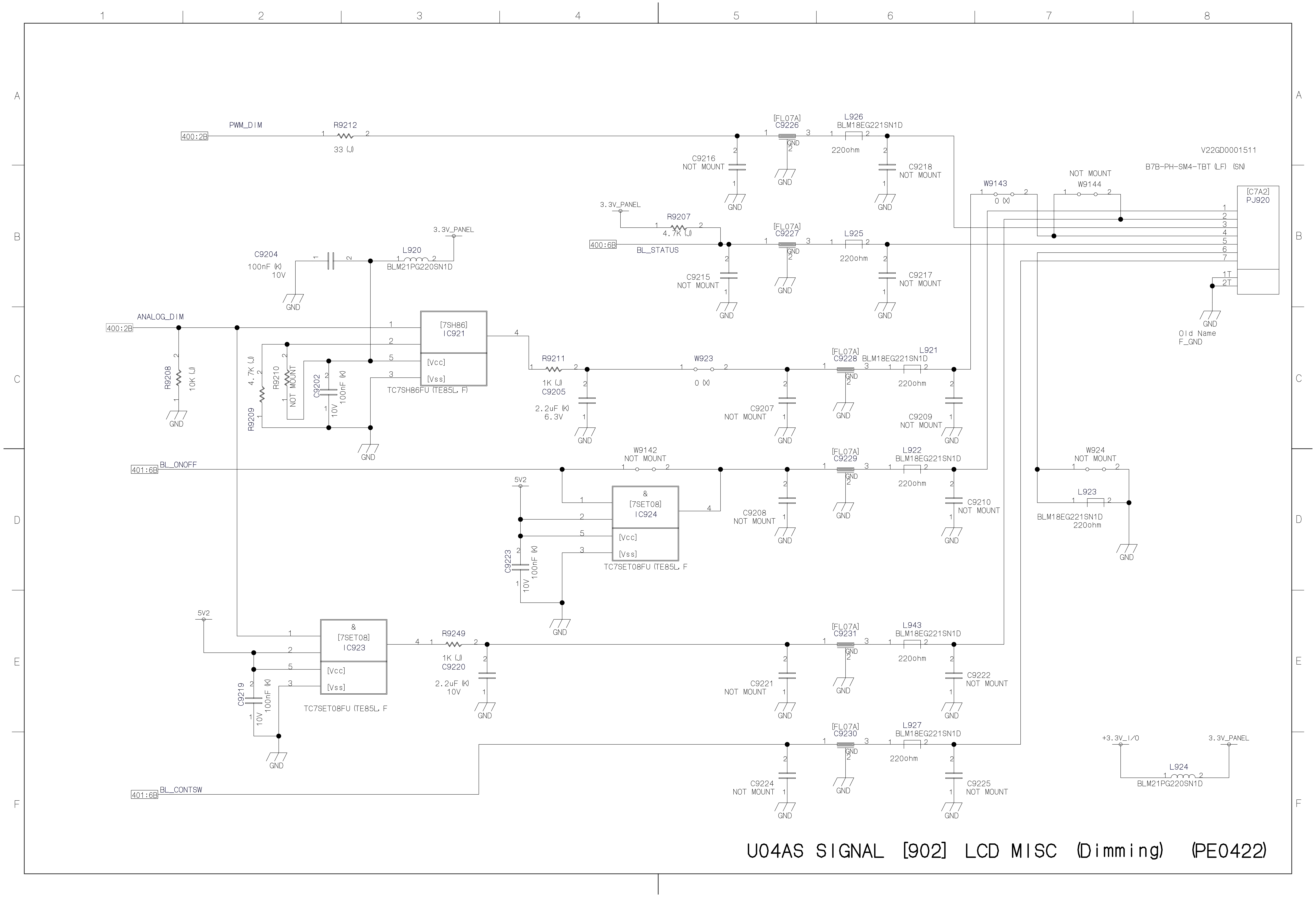
U04AS SIGNAL [702] CORTEZ DDR I/F (PE0422)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDQM [0-1], FSDQS [0-1]
/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [2-3], FSDQS [2-3]
TSOP II [MDSD16M16] IC701
TSOP II [MDSD16M16] IC702
FSADDR [0] … FSADDR [12]
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10/AP A11 A12
FSBKSEL [1] BS1
FSBKSEL [0] BS0
FSCLK- CLK
FSCLK+ CLK
FSCKE CKE
R732 270 (J)
R733 270 (J)
/FSCS [0] CS
/FSRAS RAS
/FSCAS CAS
/FSWE WE
FSDQM [0] LDM
FSDQM [1] UDM
FSDQS [0] LDQS
FSDQS [1] UDQS
FSDQM [2] LDM
FSDQM [3] UDM
FSDQS [2] LDQS
FSDQS [3] UDQS
NC
DQ0 … DQ15
FSDATA [0] … FSDATA [15]
FSDATA [16] … FSDATA [31]
702:1A FSDATA [16-31]
[VDDQ] [VSSQ] [VDD] [VSS] [VREF]
+2.5V_DDR
FSVREF
R745 10K (F)
R746 10K (F)
R748 200 (J)
R747 NOT MOUNT
C773 22uF (M) 6.3V
C774 100nF (K)
C775 100nF (K)
C776 100nF (K)
C777 100nF (K)
C778 100nF (K)
C779 100nF (K)
C780 100nF (K)
C781 100nF (K)
C782 100nF (K)
C783 100nF (K)
C784 100nF (K)
C785 100nF (K)
C786 100nF (K)
C787 100nF (K)
GND
old name: C_DDR_GND
1 2 3 4 5 6 7 8
A B C D E F

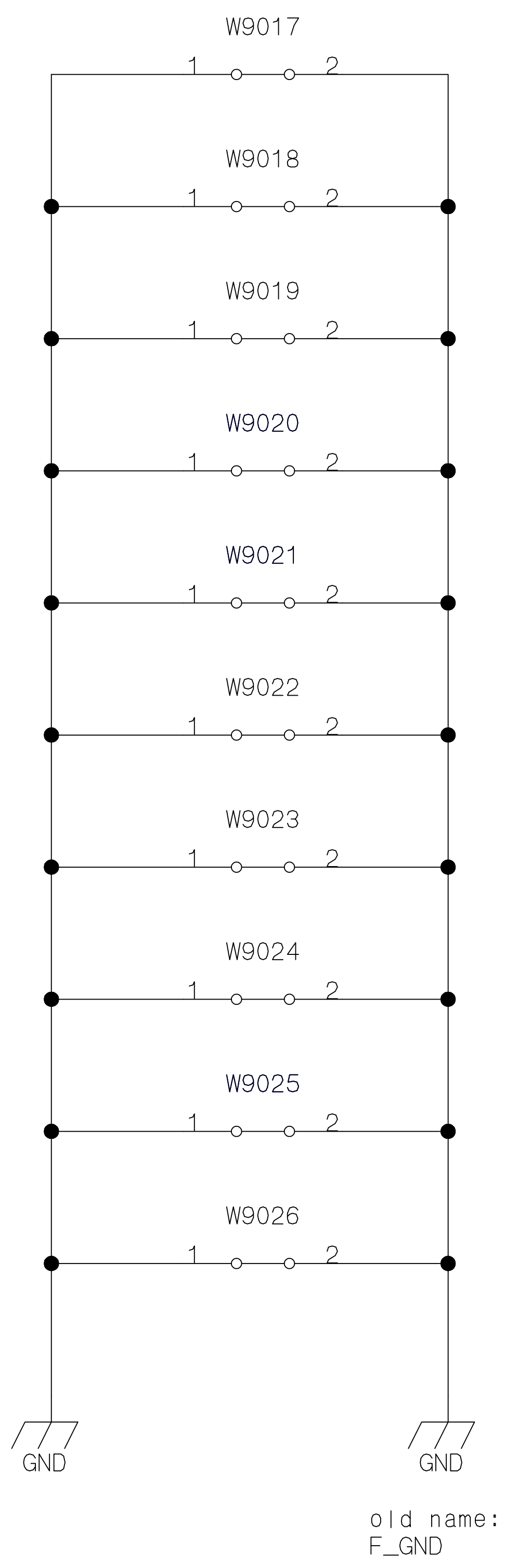
U04AS SIGNAL [703] DDR SDRAM (PE0422)

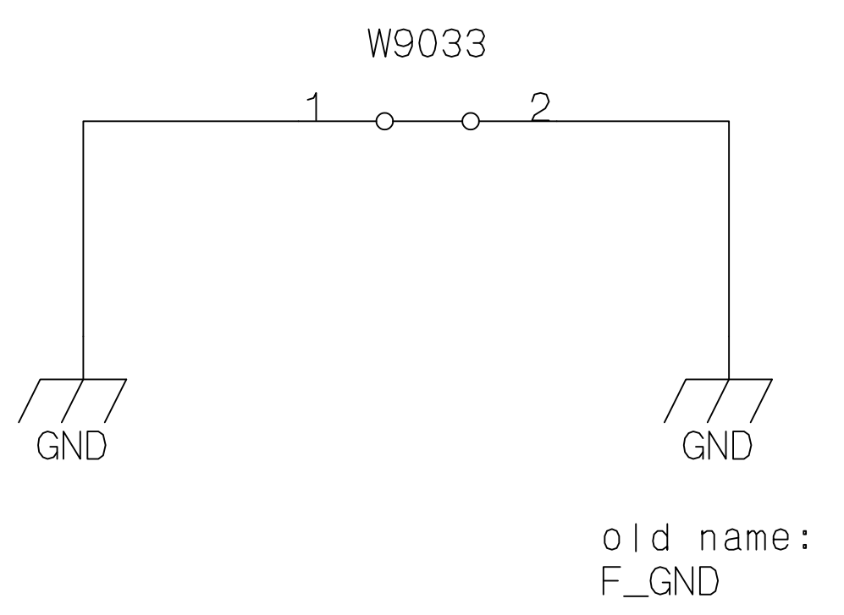

V46A00014200
FLI30436-AC
[V-U30436]
6/9
IC700
CH4E−/PD1
N24
R960
1
68 (J)
2
LVDS_EVEN_CH4N
523:6B
CH4E+/PD0
N23
R961
68 (J)
LVDS_EVEN_CH4P
523:6B
CH3E−/PD3
N26
R962
68 (J)
LVDS_EVEN_CH3N
523:6B
CH3E+/PD2
N25
R963
68 (J)
LVDS_EVEN_CH3P
523:6B
CKE−/PD5
L24
R964
68 (J)
LVDS_EVEN_CLKN
523:6B
CKE+/PD4
L23
R965
68 (J)
LVDS_EVEN_CLKP
523:6B
CH2E−/PD7
L26
R966
68 (J)
LVDS_EVEN_CH2N
523:6B
CH2E+/PD6
L25
R967
68 (J)
LVDS_EVEN_CH2P
523:6B
CH1E−/PD9
K24
R968
68 (J)
LVDS_EVEN_CH1N
523:6B
CH1E+/PD8
K23
R969
68 (J)
LVDS_EVEN_CH1P
523:6B
CH0E−/PD11
K26
R970
68 (J)
LVDS_EVEN_CH0N
523:6B
CH0E+/PD10
K25
R971
68 (J)
LVDS_EVEN_CH0P
523:6B
CH4O−/PD13
J24
R972
68 (J)
LVDS_ODD_CH4N
523:6C
CH4O+/PD12
J23
R973
68 (J)
LVDS_ODD_CH4P
523:6C
CH3O−/PD15
G24
R974
68 (J)
LVDS_ODD_CH3N
523:6C
CH3O+/PD14
G23
R975
68 (J)
LVDS_ODD_CH3P
523:6C
CKO−/PD17
G26
R976
68 (J)
LVDS_ODD_CLKN
523:6C
CKO+/OD16
G25
R977
68 (J)
LVDS_ODD_CLKP
523:6C
CH2O−/PD19
F24
R978
68 (J)
LVDS_ODD_CH2N
523:6C
CH2O+/PD18
F23
R979
68 (J)
LVDS_ODD_CH2P
523:6C
CH1O−/PD21
F26
R980
68 (J)
LVDS_ODD_CH1N
523:6D
CH1O+/PD20
F25
R981
68 (J)
LVDS_ODD_CH1P
523:6C
CH0O−/PD23
E24
R982
68 (J)
LVDS_ODD_CH0N
523:6D
CH0O+/PD22
E23
R983
68 (J)
LVDS_ODD_CH0P
523:6D
DCLK
P24
DHS
P25
DVS
R26
DEN
P26
R9232
NOT MOUNT

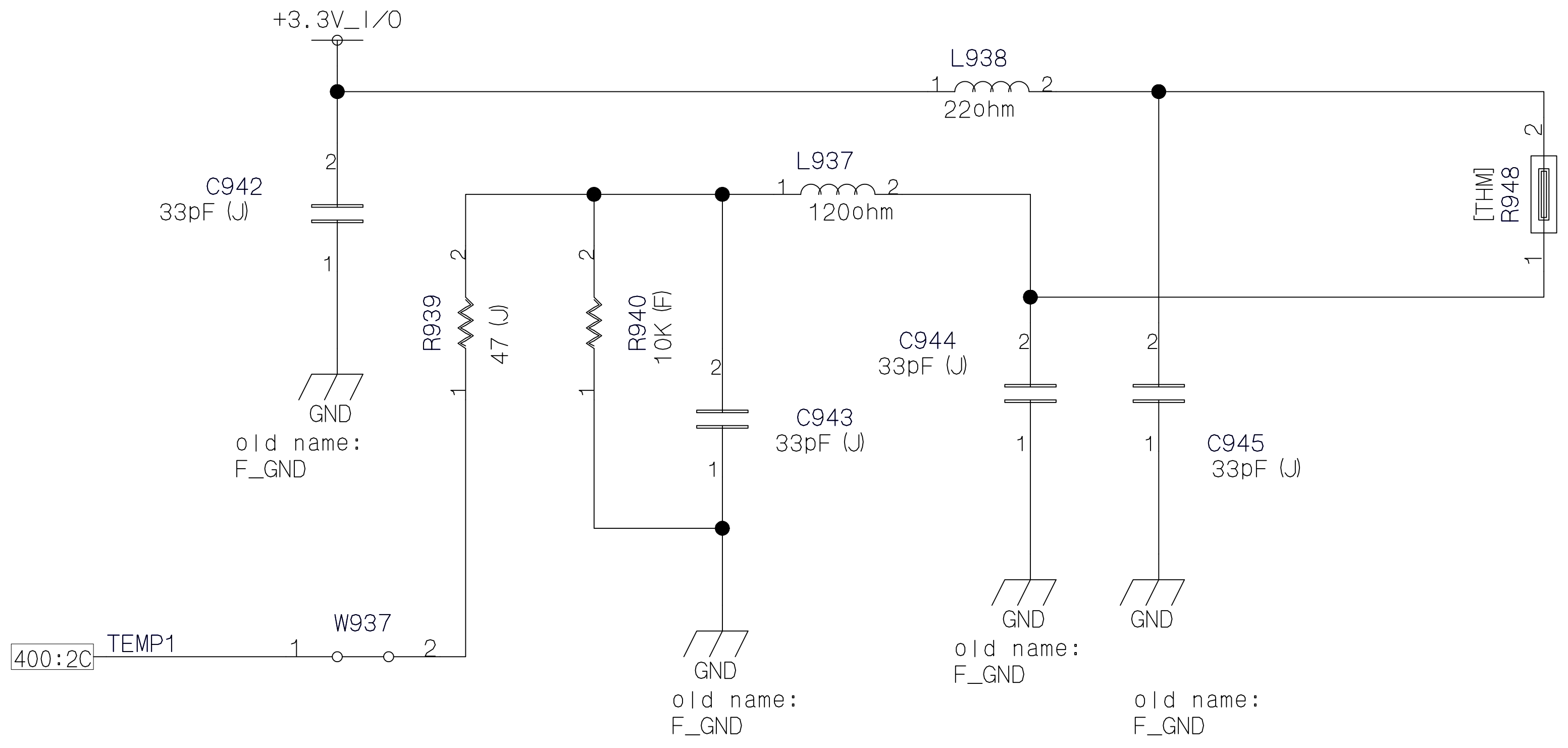
U04AS SIGNAL [900] CORTEZ LVDS_OUT (PE0422)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
400:2B
PWM_DIM
R9212
33 (J)
C9216
NOT MOUNT
[FL07A]
C9226
GND
L926
BLM18EG221SN1D
220ohm
C9218
NOT MOUNT
V22GD0001511
B7B-PH-SM4-TBT (LF) (SN)
[C7A2]
PJ920
1T
2T
Old Name
F_GND
W9143
0 (X)
NOT MOUNT
W9144
3.3V_PANEL
R9207
4.7K (J)
400:6B
BL_STATUS
C9215
NOT MOUNT
[FL07A]
C9227
L925
220ohm
C9217
NOT MOUNT
C9204
100nF (K)
10V
L920
BLM21PG220SN1D
ANALOG_DIM
[7SH86]
IC921
[Vcc]
[Vss]
TC7SH86FU (TE85L, F)
R9208
10K (J)
R9209
4.7K (J)
R9210
NOT MOUNT
C9202
100nF (K)
10V
R9211
1K (J)
C9205
2.2uF (K)
6.3V
W923
0 (X)
C9207
NOT MOUNT
[FL07A]
C9228
BLM18EG221SN1D
L921
220ohm
C9209
NOT MOUNT
401:6B
BL_ONOFF
W9142
NOT MOUNT
5V2
&
[7SET08]
IC924
TC7SET08FU (TE85L, F
C9223
100nF (K)
10V
C9208
NOT MOUNT
[FL07A]
C9229
L922
BLM18EG221SN1D
220ohm
C9210
NOT MOUNT
W924
NOT MOUNT
L923
BLM18EG221SN1D
220ohm
&
[7SET08]
IC923
TC7SET08FU (TE85L, F
C9219
100nF (K)
10V
R9249
1K (J)
C9220
2.2uF (K)
10V
C9221
NOT MOUNT
[FL07A]
C9231
L943
BLM18EG221SN1D
220ohm
C9222
NOT MOUNT
401:6B
BL_CONTSW
C9224
NOT MOUNT
[FL07A]
C9230
L927
BLM18EG221SN1D
220ohm
C9225
NOT MOUNT
+3.3V_I/O
3.3V_PANEL
L924
BLM21PG220SN1D
GND

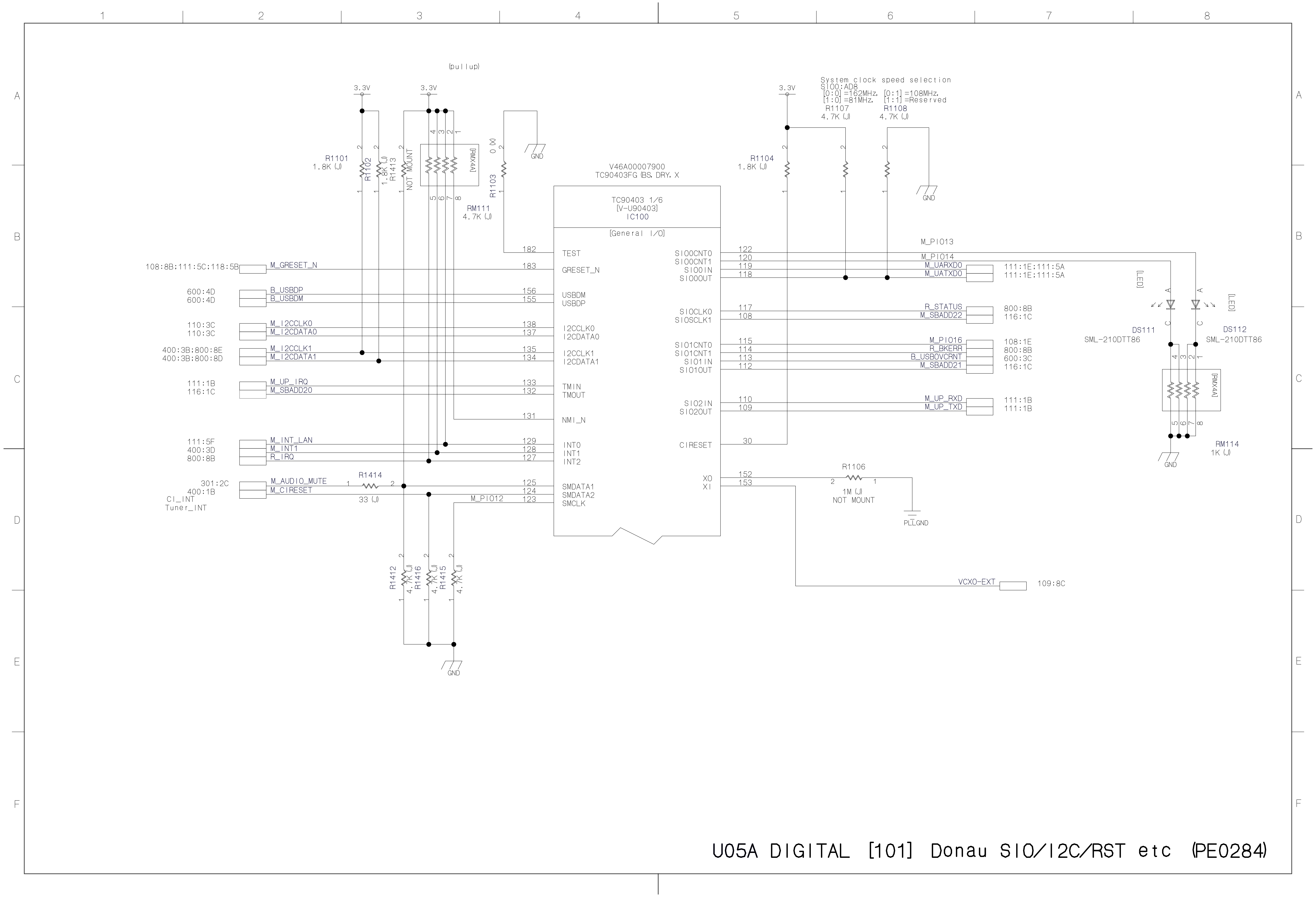
U04AS SIGNAL [902] LCD MISC (Dimming) (PE0422)


W9017
1
2
W9018
1
2
W9019
1
2
W9020
1
2
W9021
1
2
W9022
1
2
W9023
1
2
W9024
1
2
W9025
1
2
W9026
1
2
GND
GND
old name:
F_GND

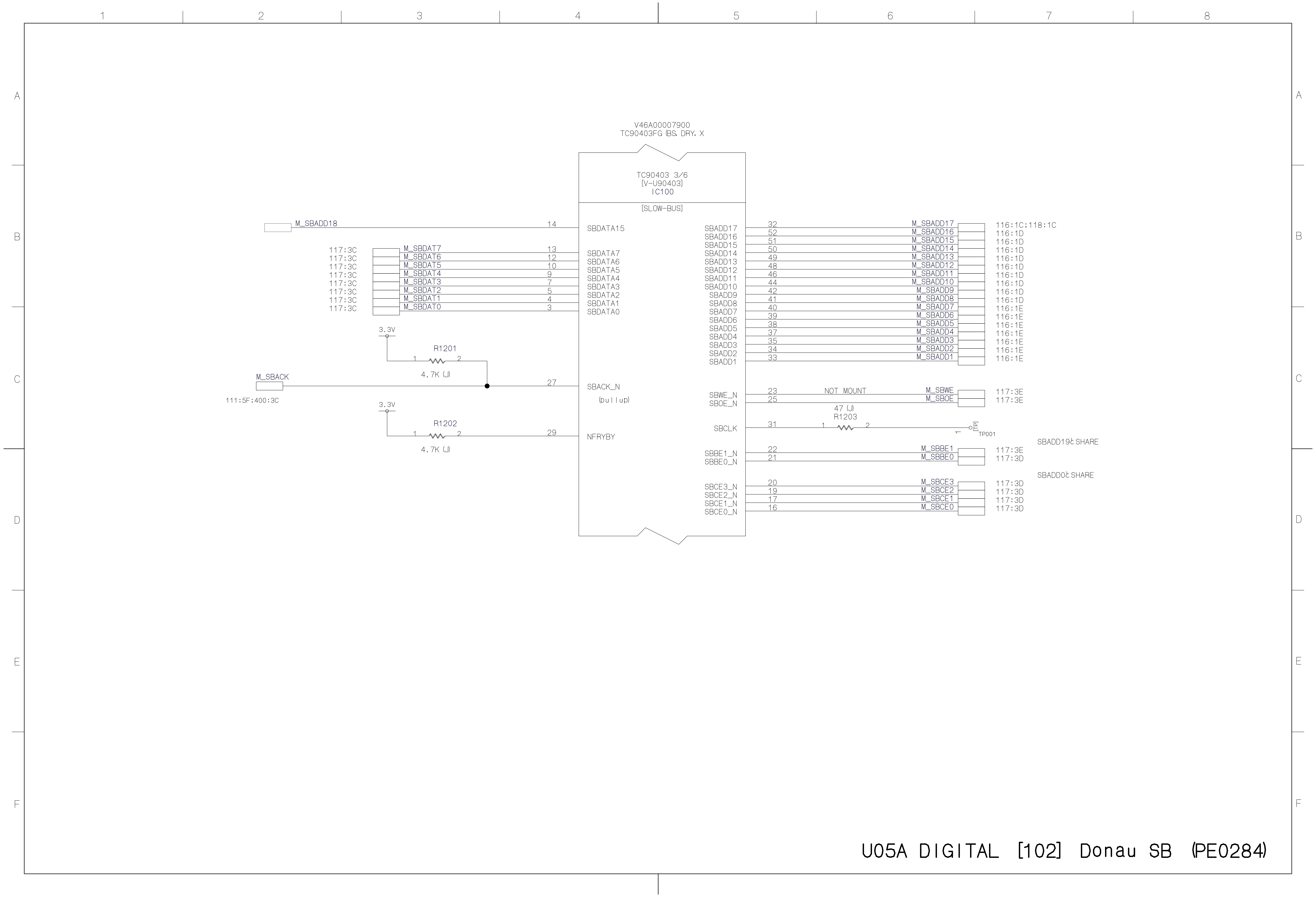

W9033
1
2
GND
GND
old name:
F_GND


+3.3V_I/O
L938
1
2
22ohm
C942
33pF (J)
2
1
GND
old name:
F_GND
L937
1
2
120ohm
R939
47 (J)
R940
10K (F)
C943
33pF (J)
GND
old name:
F_GND
C944
33pF (J)
GND
old name:
F_GND
C945
33pF (J)
GND
old name:
F_GND
[THM]
R948
400:2C
TEMP1
W937
1
2

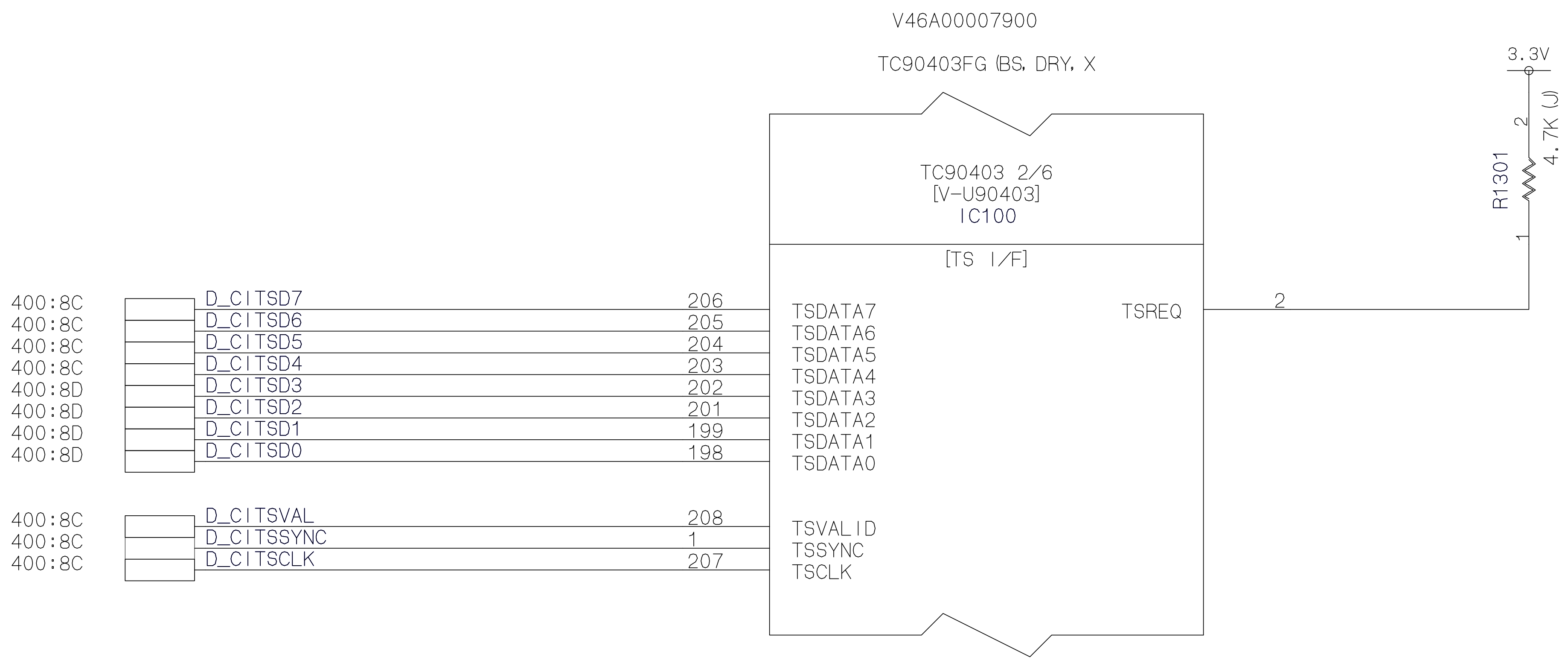
U04AS SIGNAL [903] Temperature sensor (SHARP) (PE0422)


(pullup)
3.3V
3.3V
3.3V
R1101
1.8K (J)
R1102
1.8K (J)
R1413
NOT MOUNT
[RMX4A]
RM111
4.7K (J)
0 (X)
R1103
GND
V46A00007900
TC90403FG (BS, DRY, X
TC90403 1/6
[V-U90403]
IC100
[General I/O]
System clock speed selection
SIO0:AD8
[0:0] =162MHz, [0:1] =108MHz,
[1:0] =81MHz, [1:1] =Reserved
R1107
4.7K (J)
R1108
4.7K (J)
R1104
1.8K (J)
GND
108:8B:111:5C:118:5B
M_GRESET_N
600:4D
600:4D
B_USBDP
B_USBDM
110:3C
110:3C
M_I2CCLK0
M_I2CDATA0
400:3B:800:8E
400:3B:800:8D
M_I2CCLK1
M_I2CDATA1
111:1B
116:1C
M_UP_IRQ
M_SBADD20
111:5F
400:3D
800:8B
M_INT_LAN
M_INT1
R_IRQ
301:2C
400:1B
CI_INT
Tuner_INT
M_AUDIO_MUTE
M_CIRESET
R1414
33 (J)
M_PIO12
182 TEST
183 GRESET_N
156 USBDM
155 USBDP
138 I2CCLK0
137 I2CDATA0
135 I2CCLK1
134 I2CDATA1
133 TMIN
132 TMOUT
131 NMI_N
129 INT0
128 INT1
127 INT2
125 SMDATA1
124 SMDATA2
123 SMCLK
SIO0CNT0 122
SIO0CNT1 120
SIO0IN 119
SIO0OUT 118
SIOCLK0 117
SIOSCLK1 108
SIO1CNT0 115
SIO1CNT1 114
SIO1IN 113
SIO1OUT 112
SIO2IN 110
SIO2OUT 109
CIRESET 30
X0 152
XI 153
M_PIO13
M_PIO14
M_UARXD0
M_UATXD0
111:1E:111:5A
111:1E:111:5A
R_STATUS
M_SBADD22
800:8B
116:1C
M_PIO16
R_BKERR
B_USBOVCRNT
M_SBADD21
108:1E
800:8B
600:3C
116:1C
M_UP_RXD
M_UP_TXD
111:1B
111:1B
R1106
1M (J)
NOT MOUNT
PLLGND
VCXO-EXT
109:8C
[LED]
[LED]
DS111
SML-210DTT86
DS112
SML-210DTT86
[RMX4A]
RM114
1K (J)
GND
R1412
4.7K (J)
R1416
4.7K (J)
R1415
4.7K (J)
GND
1 2 3 4 5 6 7 8
A B C D E F

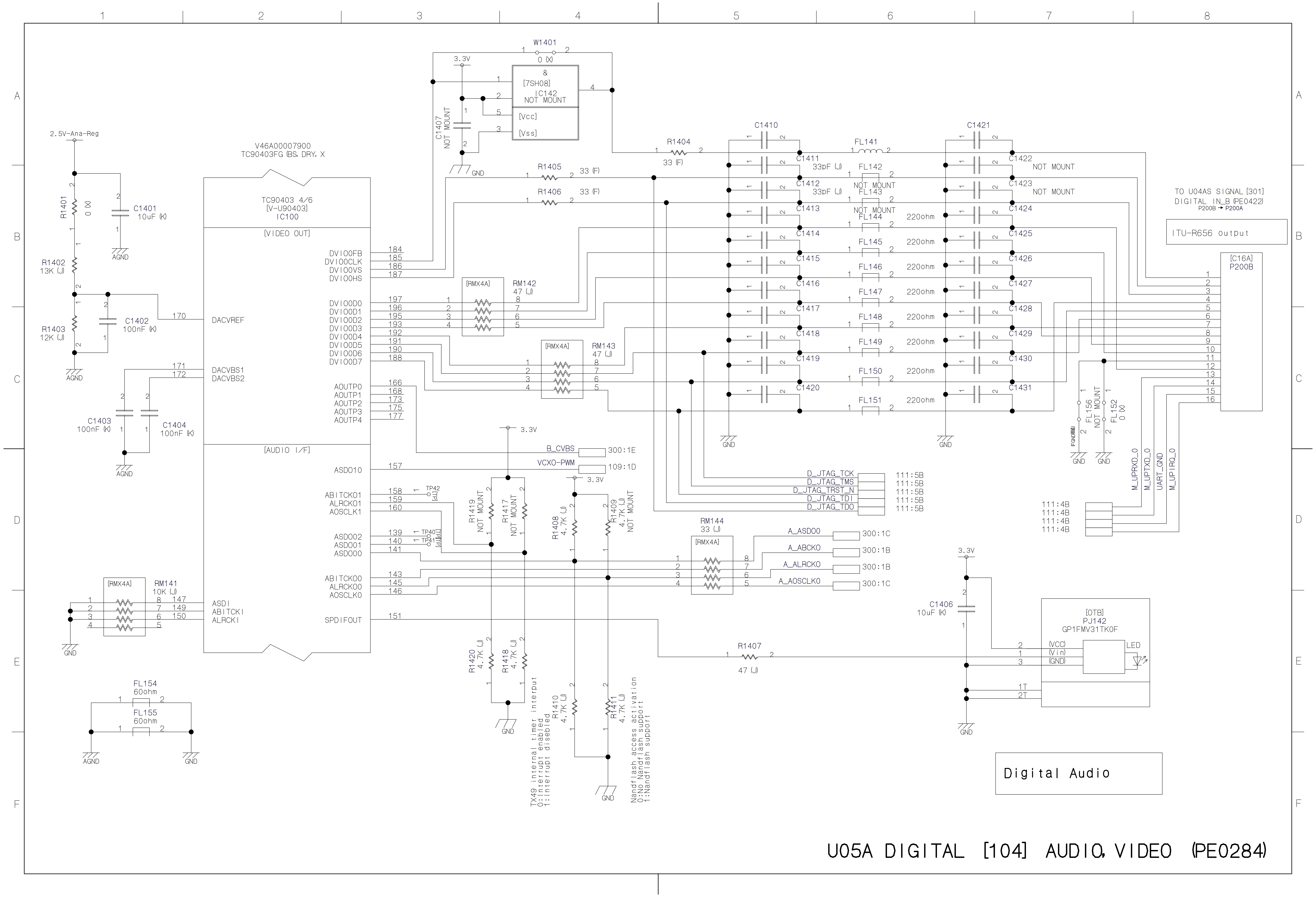
U05A DIGITAL [101] Donau SIO/I2C/RST etc (PE0284)

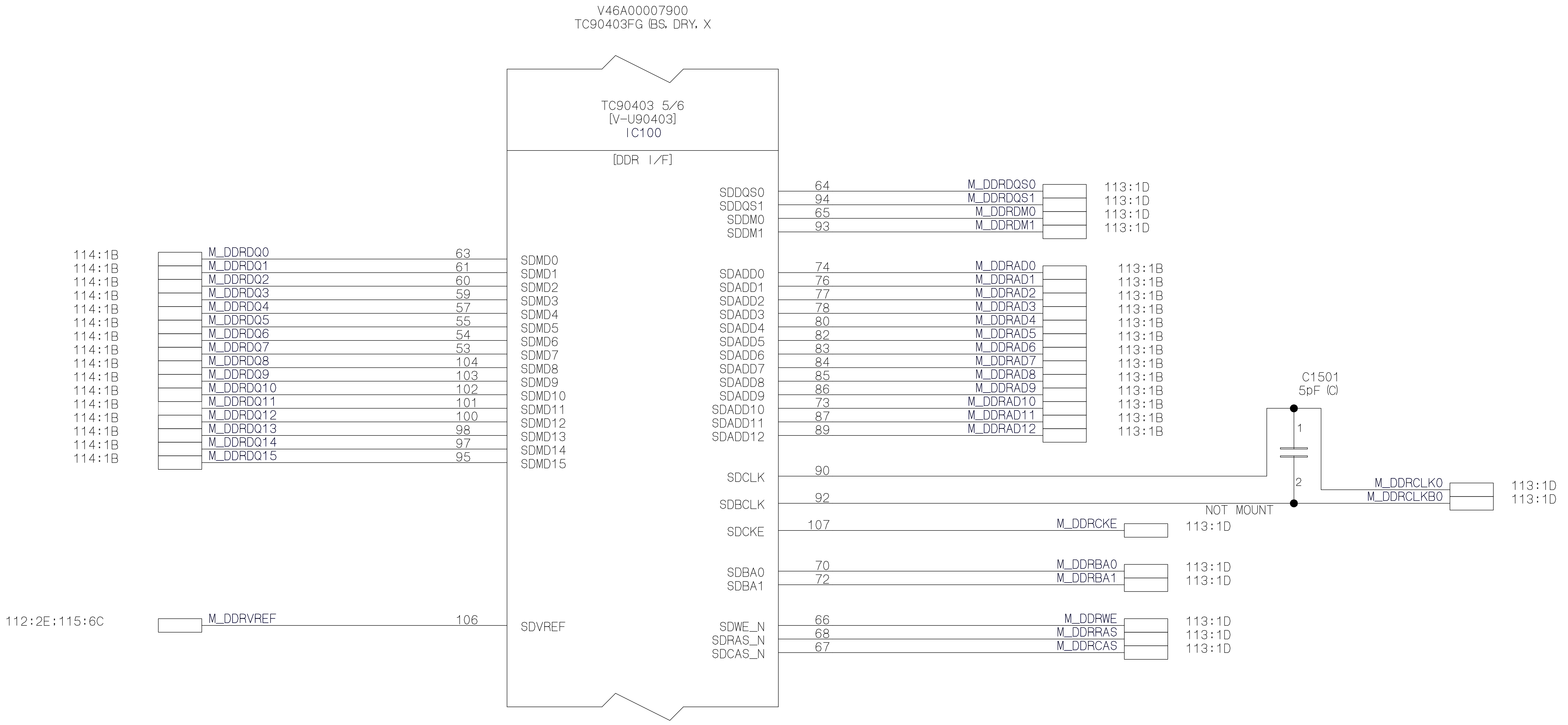

1
2
3
4
5
6
7
8
A
B
C
D
E
F
V46A00007900
TC90403FG (BS, DRY, X
TC90403 3/6
[V-U90403]
IC100
[SLOW-BUS]
M_SBADD18
14
SBDATA15
117:3C
M_SBDAT7
13
SBDATA7
117:3C
M_SBDAT6
12
SBDATA6
117:3C
M_SBDAT5
10
SBDATA5
117:3C
M_SBDAT4
9
SBDATA4
117:3C
M_SBDAT3
7
SBDATA3
117:3C
M_SBDAT2
5
SBDATA2
117:3C
M_SBDAT1
4
SBDATA1
117:3C
M_SBDAT0
3
SBDATA0
3.3V
R1201
1
2
4.7K (J)
M_SBACK
111:5F;400:3C
27
SBACK_N
(pullup)
3.3V
R1202
1
2
4.7K (J)
29
NFRYBY
SBADD17
32
M_SBADD17
116:1C;118:1C
SBADD16
52
M_SBADD16
116:1D
SBADD15
51
M_SBADD15
116:1D
SBADD14
50
M_SBADD14
116:1D
SBADD13
49
M_SBADD13
116:1D
SBADD12
48
M_SBADD12
116:1D
SBADD11
46
M_SBADD11
116:1D
SBADD10
44
M_SBADD10
116:1D
SBADD9
42
M_SBADD9
116:1D
SBADD8
41
M_SBADD8
116:1D
SBADD7
40
M_SBADD7
116:1E
SBADD6
39
M_SBADD6
116:1E
SBADD5
38
M_SBADD5
116:1E
SBADD4
37
M_SBADD4
116:1E
SBADD3
35
M_SBADD3
116:1E
SBADD2
34
M_SBADD2
116:1E
SBADD1
33
M_SBADD1
116:1E
SBWE_N
23
NOT MOUNT
M_SBWE
117:3E
SBOE_N
25
M_SBOE
117:3E
47 (J)
R1203
SBCLK
31
1
2
1
[TP]
TP001
SBADD19と SHARE
SBBE1_N
22
M_SBBE1
117:3E
SBBE0_N
21
M_SBBE0
117:3D
SBADD0と SHARE
SBCE3_N
20
M_SBCE3
117:3D
SBCE2_N
19
M_SBCE2
117:3D
SBCE1_N
17
M_SBCE1
117:3D
SBCE0_N
16
M_SBCE0
117:3D

U05A DIGITAL [102] Donau SB (PE0284)

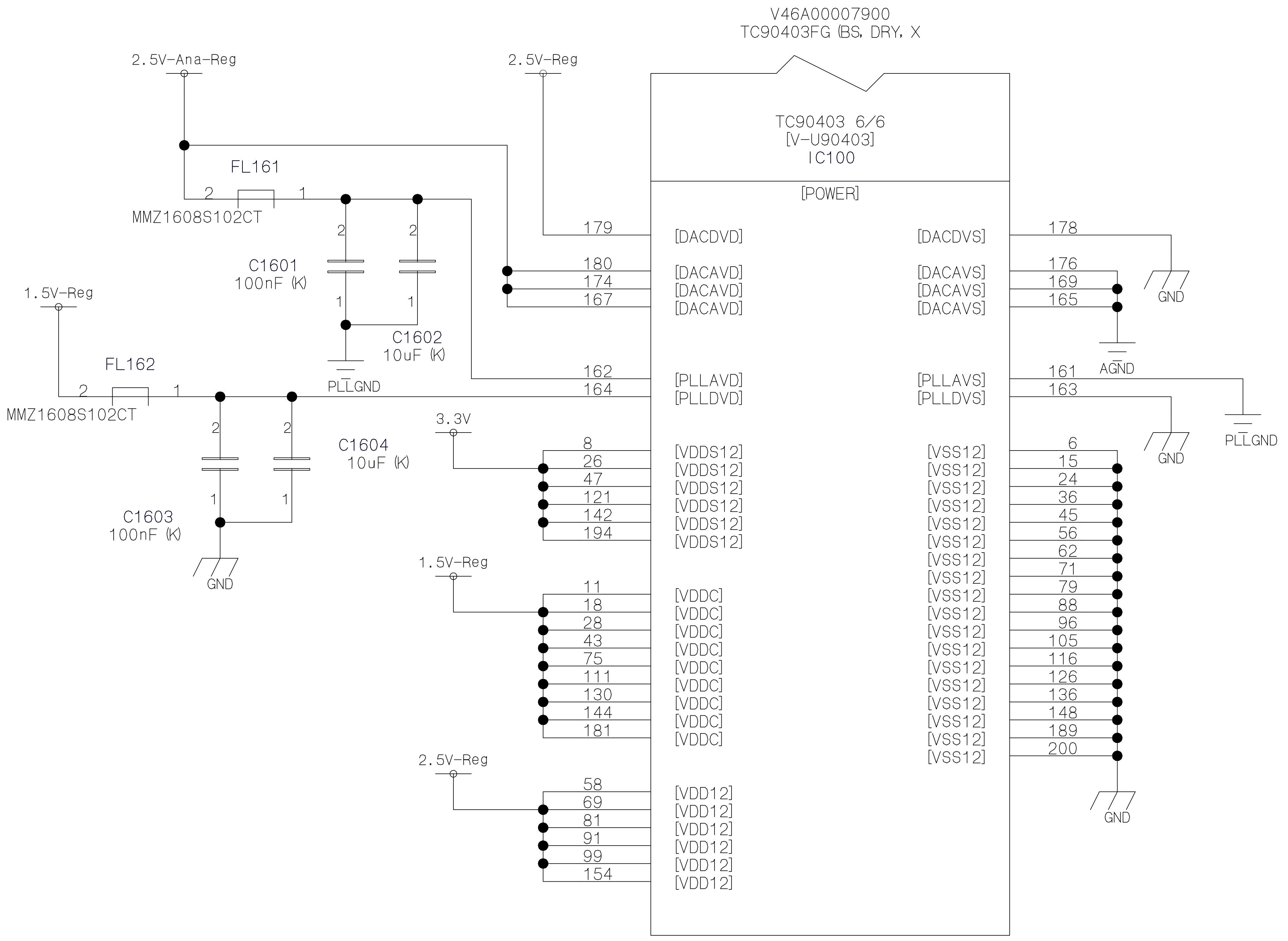

V46A00007900
TC90403FG (BS, DRY, X
TC90403 2/6
[V-U90403]
IC100
[TS I/F]
400:8C
400:8C
400:8C
400:8C
400:8D
400:8D
400:8D
400:8D
D_CITSD7
D_CITSD6
D_CITSD5
D_CITSD4
D_CITSD3
D_CITSD2
D_CITSD1
D_CITSD0
206
205
204
203
202
201
199
198
TSDATA7
TSDATA6
TSDATA5
TSDATA4
TSDATA3
TSDATA2
TSDATA1
TSDATA0
400:8C
400:8C
400:8C
D_CITSVAL
D_CITSSYNC
D_CITSCLK
208
1
207
TSVALID
TSSYNC
TSCLK
TSREQ
2
3.3V
2
1
R1301
4.7K (J)

U05A DIGITAL [103] TS (PE0284)

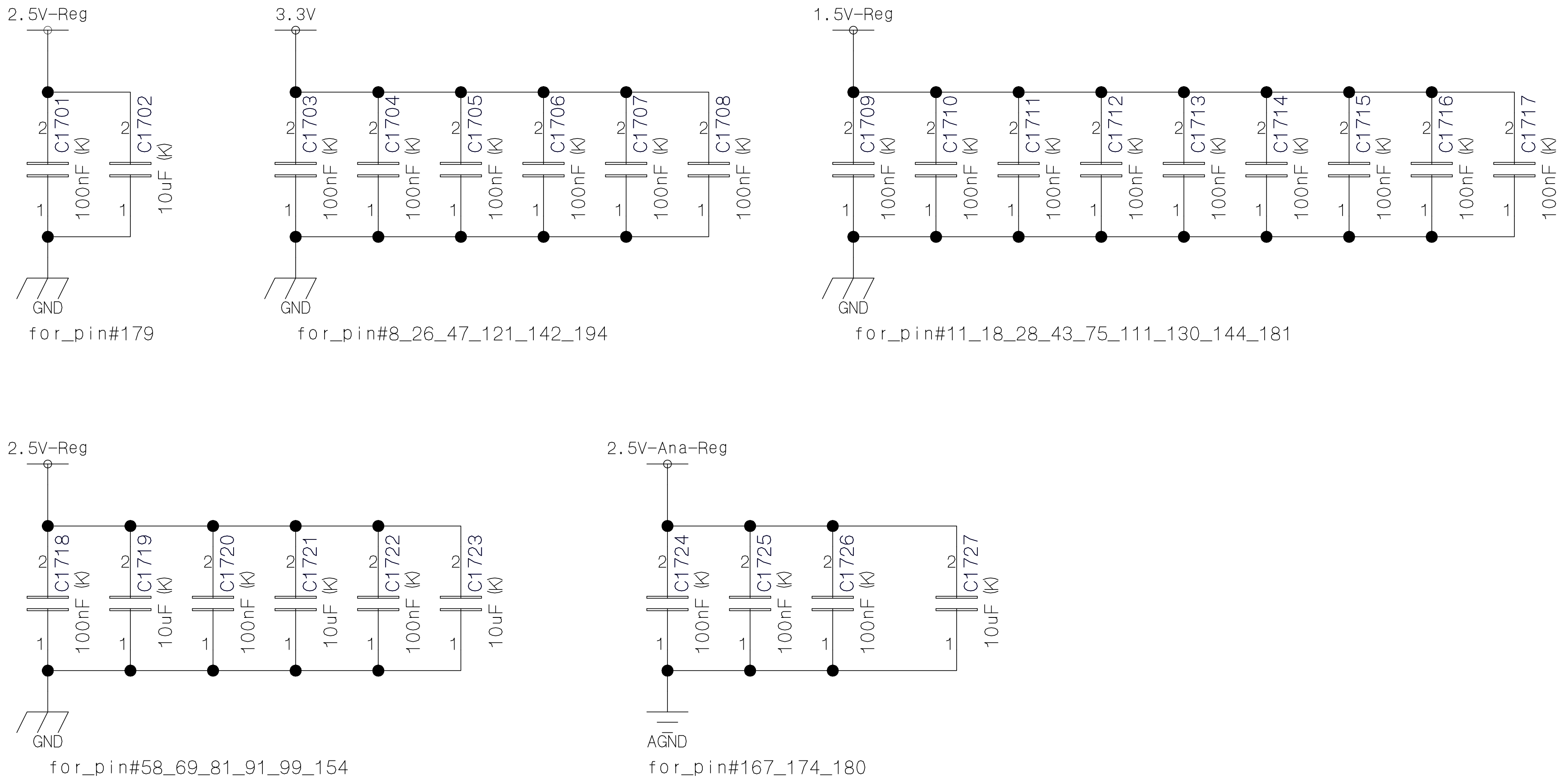

V46A00007900
TC90403FG (BS, DRY, X
TC90403 4/6
[V-U90403]
IC100
[VIDEO OUT]
DVIO0FB
DVIO0CLK
DVIO0VS
DVIO0HS
DVIO0D0
DVIO0D1
DVIO0D2
DVIO0D3
DVIO0D4
DVIO0D5
DVIO0D6
DVIO0D7
AOUTP0
AOUTP1
AOUTP2
AOUTP3
AOUTP4
DACVREF
DACVBS1
DACVBS2
[AUDIO I/F]
ASDO10
ABITCKO1
ALRCKO1
AOSCLK1
ASDO02
ASDO01
ASDO00
ABITCKO0
ALRCKO0
AOSCLKO
ASDI
ABITCKI
ALRCKI
SPDIFOUT
2.5V-Ana-Reg
R1401 0 (X)
C1401 10uF (K)
R1402 13K (J)
R1403 12K (J)
C1402 100nF (K)
C1403 100nF (K)
C1404 100nF (K)
AGND
W1401 0 (X)
3.3V
[7SH08]
IC142
NOT MOUNT
[Vcc]
[Vss]
C1407 NOT MOUNT
GND
R1404 33 (F)
R1405 33 (F)
R1406 33 (F)
RM142 47 (J)
RM143 47 (J)
[RMX4A]
C1410
C1411 33pF (J)
C1412 33pF (J)
C1413
C1414
C1415
C1416
C1417
C1418
C1419
C1420
FL141
FL142 NOT MOUNT
FL143 NOT MOUNT
FL144 220ohm
FL145 220ohm
FL146 220ohm
FL147 220ohm
FL148 220ohm
FL149 220ohm
FL150 220ohm
FL151 220ohm
C1421
C1422 NOT MOUNT
C1423 NOT MOUNT
C1424
C1425
C1426
C1427
C1428
C1429
C1430
C1431
TO U04AS SIGNAL [301]
DIGITAL IN_B (PE0422)
P200B → P200A
ITU-R656 output
[C16A]
P200B
FL156 NOT MOUNT
FL152 0 (X)
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
111:4B
B_CVBS 300:1E
VCXO-PWM 109:1D
D_JTAG_TCK 111:5B
D_JTAG_TMS 111:5B
D_JTAG_TRST_N 111:5B
D_JTAG_TDI 111:5B
D_JTAG_TDO 111:5B
TP42
TP40
TP41
R1419 NOT MOUNT
R1417 NOT MOUNT
R1408 4.7K (J)
R1409 4.7K (J) NOT MOUNT
RM144 33 (J)
A_ASDO0 300:1C
A_ABCKO 300:1B
A_ALRCKO 300:1B
A_AOSCLKO 300:1C
RM141 10K (J)
R1420 4.7K (J)
R1418 4.7K (J)
R1410 4.7K (J)
R1411 4.7K (J)
TX49 internal timer interrupt
0:interrupt enabled
1:interrupt disabled
Nandflash access activation
0:No Nandflash support
1:Nandflash support
FL154 60ohm
FL155 60ohm
C1406 10uF (K)
R1407 47 (J)
[OTB]
PJ142
GP1FMV31TK0F
(VCC)
(Vin)
(GND)
LED
Digital Audio
U05A DIGITAL [104] AUDIO, VIDEO (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 5/6
[V-U90403]
IC100
[DDR I/F]
114:1B M_DDRDQ0 63 SDMD0
114:1B M_DDRDQ1 61 SDMD1
114:1B M_DDRDQ2 60 SDMD2
114:1B M_DDRDQ3 59 SDMD3
114:1B M_DDRDQ4 57 SDMD4
114:1B M_DDRDQ5 55 SDMD5
114:1B M_DDRDQ6 54 SDMD6
114:1B M_DDRDQ7 53 SDMD7
114:1B M_DDRDQ8 104 SDMD8
114:1B M_DDRDQ9 103 SDMD9
114:1B M_DDRDQ10 102 SDMD10
114:1B M_DDRDQ11 101 SDMD11
114:1B M_DDRDQ12 100 SDMD12
114:1B M_DDRDQ13 98 SDMD13
114:1B M_DDRDQ14 97 SDMD14
114:1B M_DDRDQ15 95 SDMD15
112:2E;115:6C M_DDRVREF 106 SDVREF
SDDQS0 64 M_DDRDQS0 113:1D
SDDQS1 94 M_DDRDQS1 113:1D
SDDM0 65 M_DDRDM0 113:1D
SDDM1 93 M_DDRDM1 113:1D
SDADD0 74 M_DDRAD0 113:1B
SDADD1 76 M_DDRAD1 113:1B
SDADD2 77 M_DDRAD2 113:1B
SDADD3 78 M_DDRAD3 113:1B
SDADD4 80 M_DDRAD4 113:1B
SDADD5 82 M_DDRAD5 113:1B
SDADD6 83 M_DDRAD6 113:1B
SDADD7 84 M_DDRAD7 113:1B
SDADD8 85 M_DDRAD8 113:1B
SDADD9 86 M_DDRAD9 113:1B
SDADD10 73 M_DDRAD10 113:1B
SDADD11 87 M_DDRAD11 113:1B
SDADD12 89 M_DDRAD12 113:1B
SDCLK 90
SDBCLK 92
C1501
5pF (C)
1
2
NOT MOUNT
M_DDRCLK0 113:1D
M_DDRCLKB0 113:1D
SDCKE 107 M_DDRCKE 113:1D
SDBA0 70 M_DDRBA0 113:1D
SDBA1 72 M_DDRBA1 113:1D
SDWE_N 66 M_DDRWE 113:1D
SDRAS_N 68 M_DDRRAS 113:1D
SDCAS_N 67 M_DDRCAS 113:1D

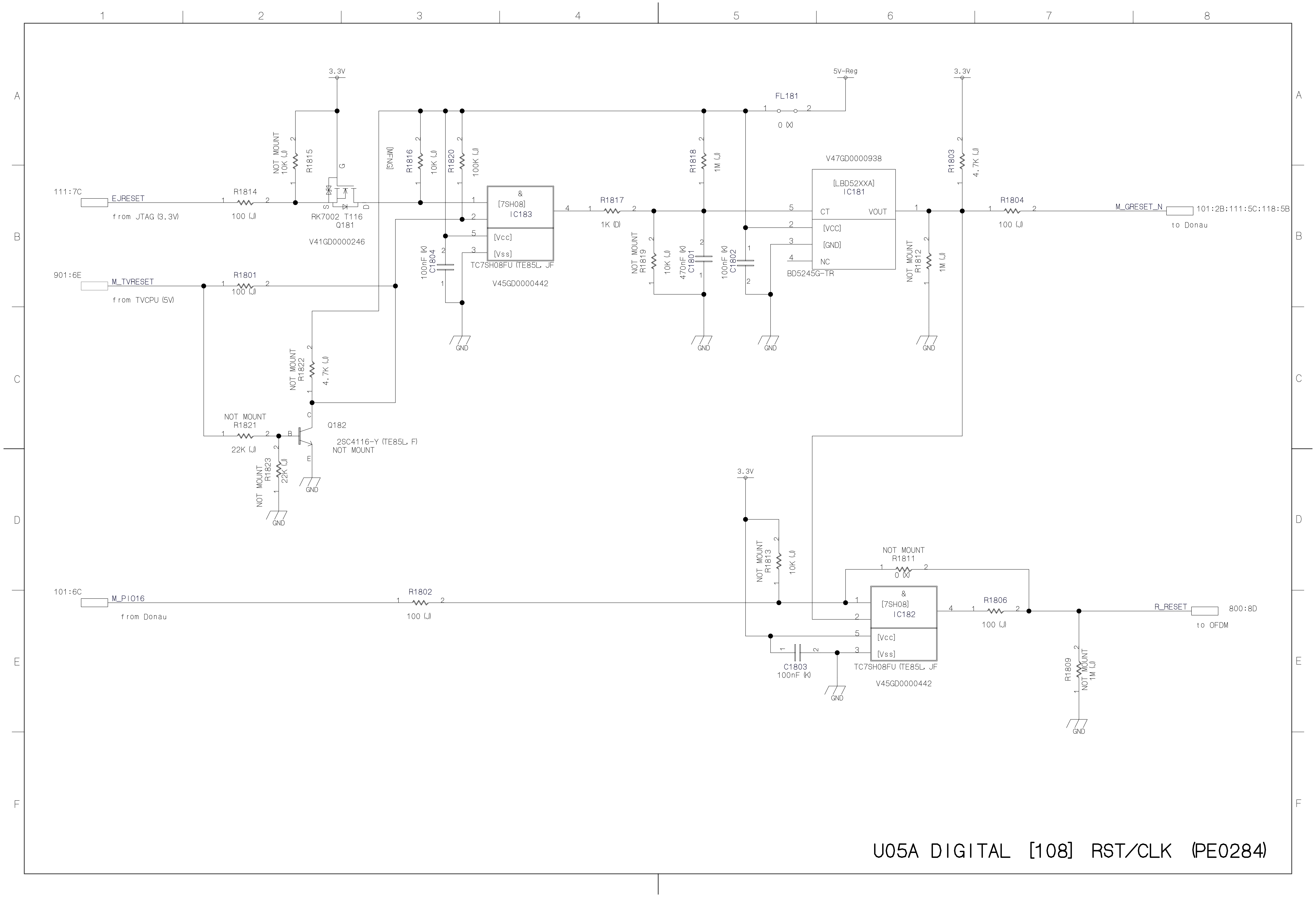
U05A DIGITAL [105] DDRSDRAM I/F (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 6/6
[V-U90403]
IC100
[POWER]
2.5V-Ana-Reg
2.5V-Reg
FL161
MMZ1608S102CT
C1601
100nF (K)
C1602
10uF (K)
PLLGND
1.5V-Reg
FL162
MMZ1608S102CT
C1603
100nF (K)
C1604
10uF (K)
GND
3.3V
1.5V-Reg
2.5V-Reg
179 [DACDVD]
180 [DACAVD]
174 [DACAVD]
167 [DACAVD]
162 [PLLAVD]
164 [PLLDVD]
8 [VDDS12]
26 [VDDS12]
47 [VDDS12]
121 [VDDS12]
142 [VDDS12]
194 [VDDS12]
11 [VDDC]
18 [VDDC]
28 [VDDC]
43 [VDDC]
75 [VDDC]
111 [VDDC]
130 [VDDC]
144 [VDDC]
181 [VDDC]
58 [VDD12]
69 [VDD12]
81 [VDD12]
91 [VDD12]
99 [VDD12]
154 [VDD12]
[DACDVS] 178
[DACAVS] 176
[DACAVS] 169
[DACAVS] 165
[PLLAVS] 161
[PLLDVS] 163
[VSS12] 6
[VSS12] 15
[VSS12] 24
[VSS12] 36
[VSS12] 45
[VSS12] 56
[VSS12] 62
[VSS12] 71
[VSS12] 79
[VSS12] 88
[VSS12] 96
[VSS12] 105
[VSS12] 116
[VSS12] 126
[VSS12] 136
[VSS12] 148
[VSS12] 189
[VSS12] 200
[VSS12]
GND
AGND
PLLGND
GND
GND

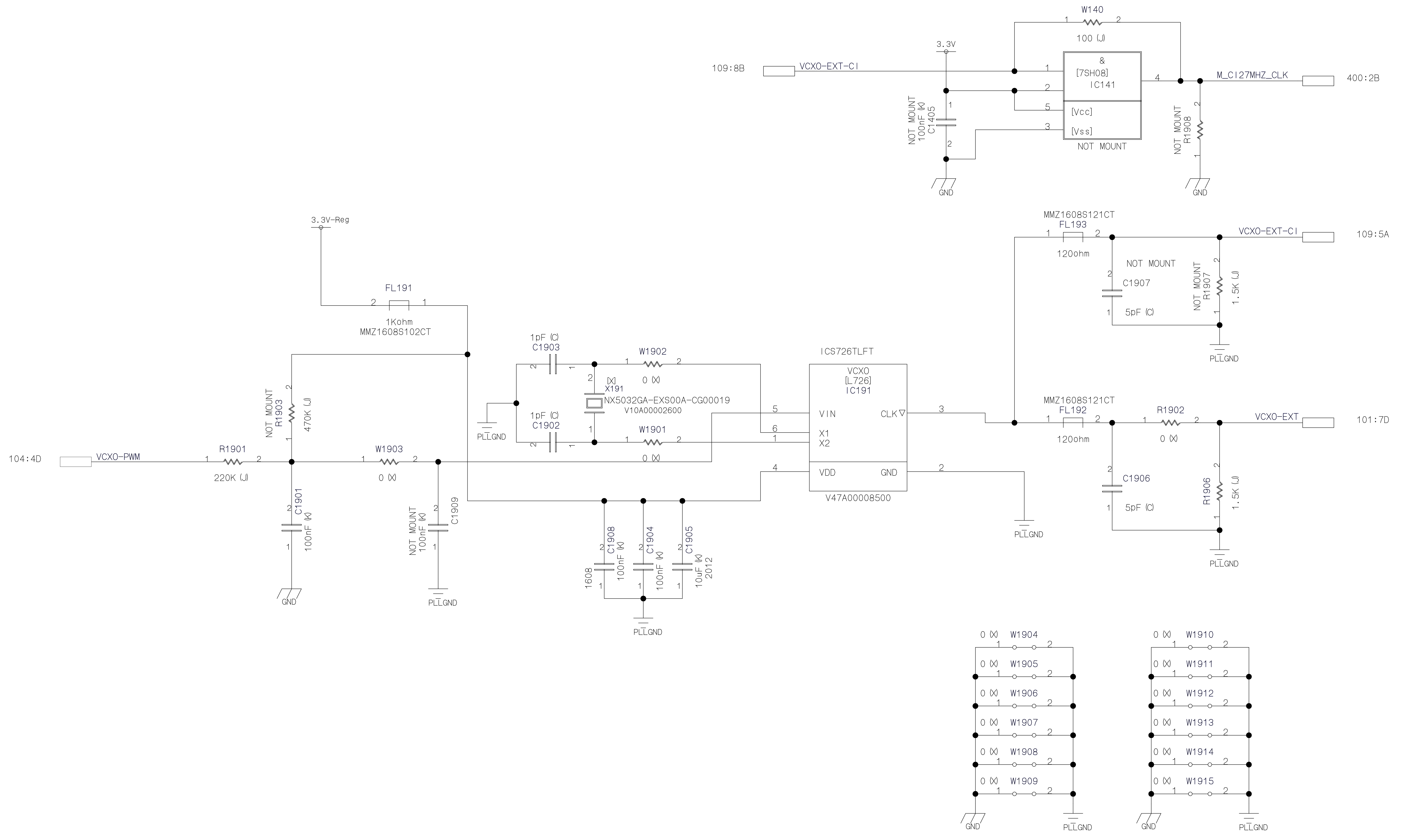
U05A DIGITAL [106] Donau PWR1 (PE0284)


2.5V-Reg
C1701
100nF (K)
C1702
10uF (K)
GND
for_pin#179
3.3V
C1703
100nF (K)
C1704
100nF (K)
C1705
100nF (K)
C1706
100nF (K)
C1707
100nF (K)
C1708
100nF (K)
GND
for_pin#8_26_47_121_142_194
1.5V-Reg
C1709
100nF (K)
C1710
100nF (K)
C1711
100nF (K)
C1712
100nF (K)
C1713
100nF (K)
C1714
100nF (K)
C1715
100nF (K)
C1716
100nF (K)
C1717
100nF (K)
GND
for_pin#11_18_28_43_75_111_130_144_181
2.5V-Reg
C1718
100nF (K)
C1719
10uF (K)
C1720
100nF (K)
C1721
10uF (K)
C1722
100nF (K)
C1723
10uF (K)
GND
for_pin#58_69_81_91_99_154
2.5V-Ana-Reg
C1724
100nF (K)
C1725
100nF (K)
C1726
100nF (K)
C1727
10uF (K)
AGND
for_pin#167_174_180

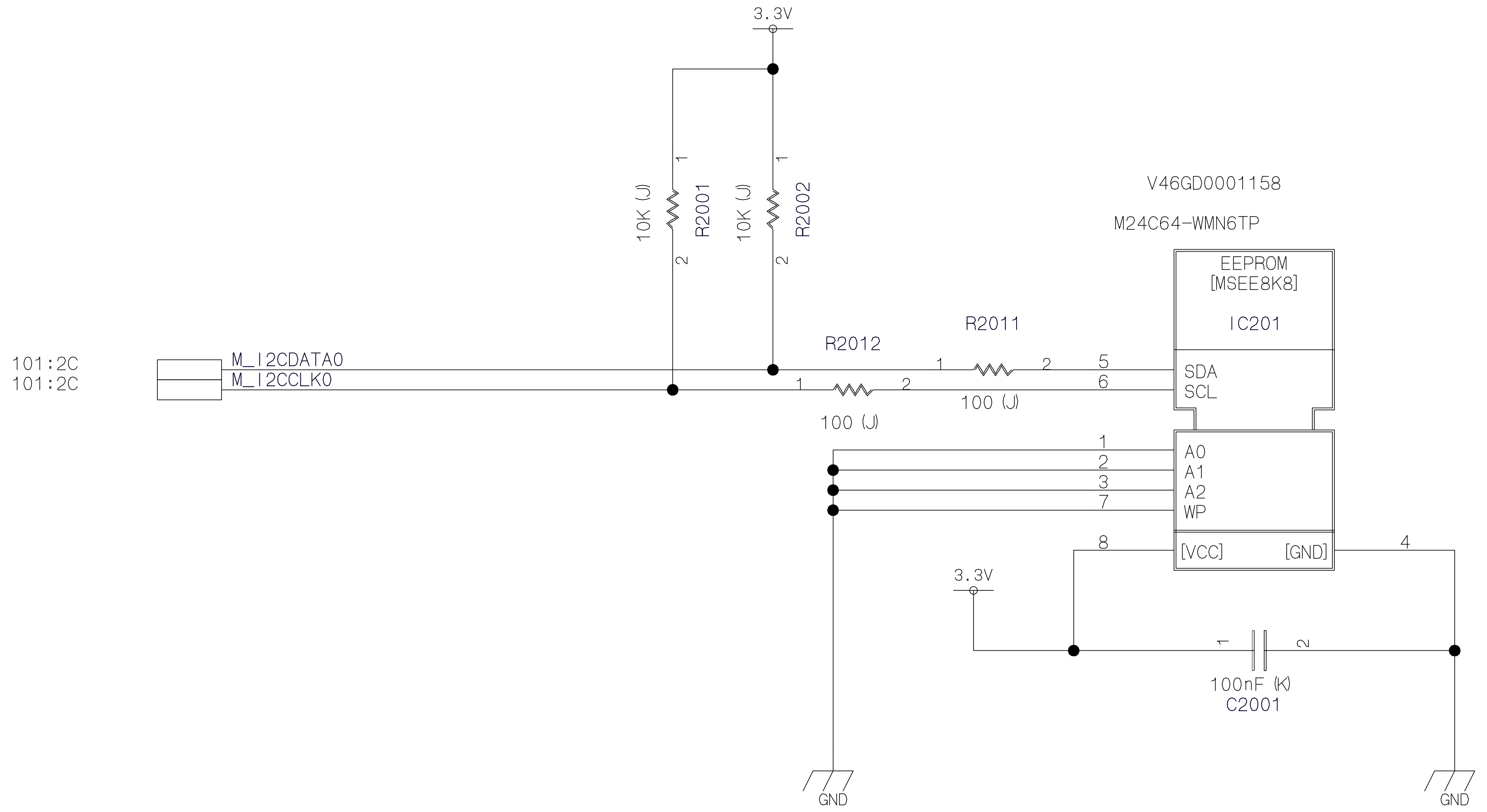
U05A DIGITAL [107] Donau PATHCON (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V
5V-Reg
3.3V
FL181
0 (X)
111:7C
EJRESET
from JTAG (3.3V)
R1814
100 (J)
NOT MOUNT
10K (J)
R1815
G
S
D
RK7002 T116
Q181
V41GD0000246
[MFNG]
R1816
10K (J)
R1820
100K (J)
&
[7SH08]
IC183
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
100nF (K)
C1804
R1817
1K (D)
R1818
1M (J)
NOT MOUNT
R1819
10K (J)
470nF (K)
C1801
100nF (K)
C1802
V47GD0000938
[LBD52XXA]
IC181
CT
VOUT
[VCC]
[GND]
NC
BD5245G-TR
R1803
4.7K (J)
R1804
100 (J)
M_GRESET_N
101:2B:111:5C:118:5B
to Donau
NOT MOUNT
R1812
1M (J)
901:6E
M_TVRESET
from TVCPU (5V)
R1801
100 (J)
GND
NOT MOUNT
R1822
4.7K (J)
NOT MOUNT
R1821
22K (J)
B
C
E
Q182
2SC4116-Y (TE85L, F)
NOT MOUNT
NOT MOUNT
R1823
22K (J)
3.3V
NOT MOUNT
R1813
10K (J)
NOT MOUNT
R1811
0 (X)
101:6C
M_PIO16
from Donau
R1802
100 (J)
&
[7SH08]
IC182
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
C1803
100nF (K)
R1806
100 (J)
R_RESET
800:8D
to OFDM
R1809
NOT MOUNT
1M (J)

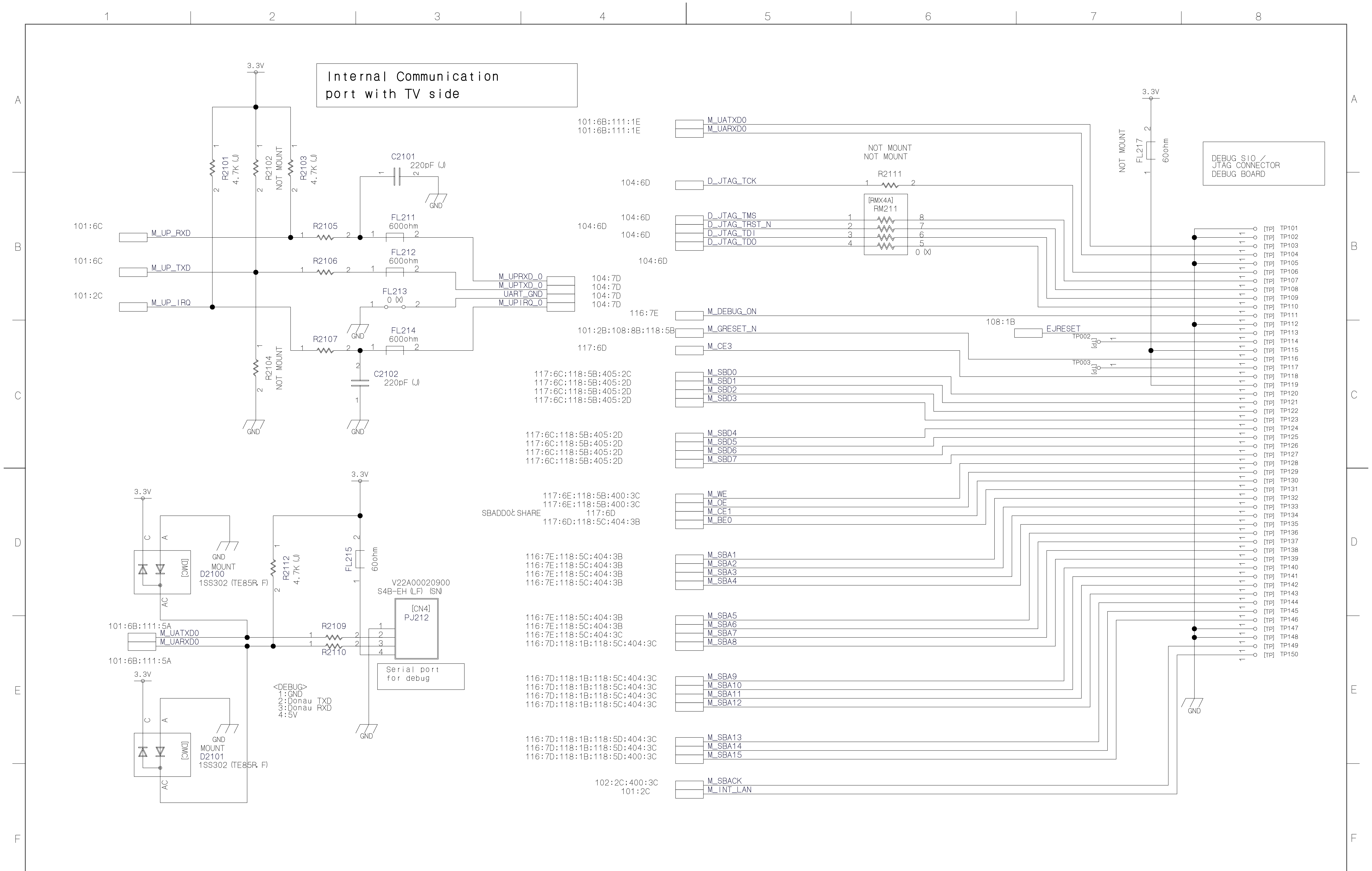
U05A DIGITAL [108] RST/CLK (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
W140
100 (J)
3.3V
109:8B
VCXO-EXT-CI
&
[7SH08]
IC141
[Vcc]
[Vss]
NOT MOUNT
M_CI27MHZ_CLK
400:2B
NOT MOUNT
100nF (K)
C1405
NOT MOUNT
R1908
GND
GND
MMZ1608S121CT
FL193
120ohm
NOT MOUNT
C1907
5pF (C)
NOT MOUNT
R1907
1.5K (J)
VCXO-EXT-CI
109:5A
PLLGND
3.3V-Reg
FL191
1Kohm
MMZ1608S102CT
1pF (C)
C1903
W1902
0 (X)
(X)
X191
NX5032GA-EXS00A-CG00019
V10A00002600
1pF (C)
C1902
W1901
0 (X)
PLLGND
ICS726TLFT
VCXO
[L726]
IC191
VIN
X1
X2
CLK
VDD
GND
V47A00008500
PLLGND
MMZ1608S121CT
FL192
120ohm
R1902
0 (X)
VCXO-EXT
101:7D
C1906
5pF (C)
R1906
1.5K (J)
PLLGND
NOT MOUNT
R1903
470K (J)
104:4D
VCXO-PWM
R1901
220K (J)
W1903
0 (X)
C1901
100nF (K)
GND
NOT MOUNT
100nF (K)
C1909
PLLGND
1608
C1908
100nF (K)
C1904
100nF (K)
C1905
10uF (K)
2012
PLLGND
0 (X) W1904
0 (X) W1905
0 (X) W1906
0 (X) W1907
0 (X) W1908
0 (X) W1909
GND
PLLGND
0 (X) W1910
0 (X) W1911
0 (X) W1912
0 (X) W1913
0 (X) W1914
0 (X) W1915
GND
PLLGND

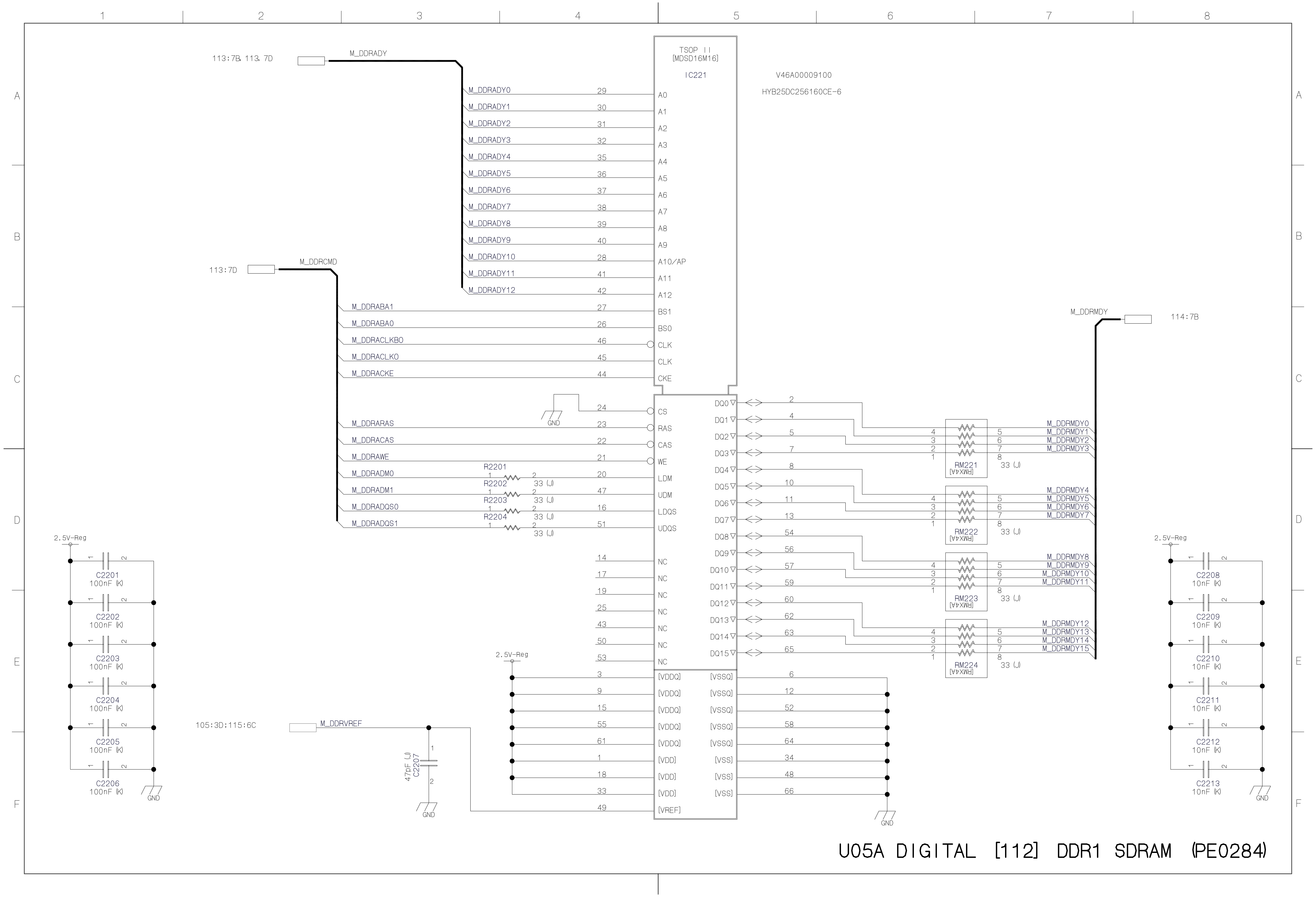
U05A DIGITAL [109] VCXO (PE0284)


3.3V
1
10K (J)
R2001
2
1
10K (J)
R2002
2
V46GD0001158
M24C64-WMN6TP
EEPROM
[MSEE8K8]
IC201
101:2C
101:2C
M_I2CDATA0
M_I2CCLK0
R2012
1
2
100 (J)
R2011
1
2
100 (J)
5
6
SDA
SCL
1
2
3
7
A0
A1
A2
WP
8
[VCC]
[GND]
4
3.3V
1
2
100nF (K)
C2001
GND
GND

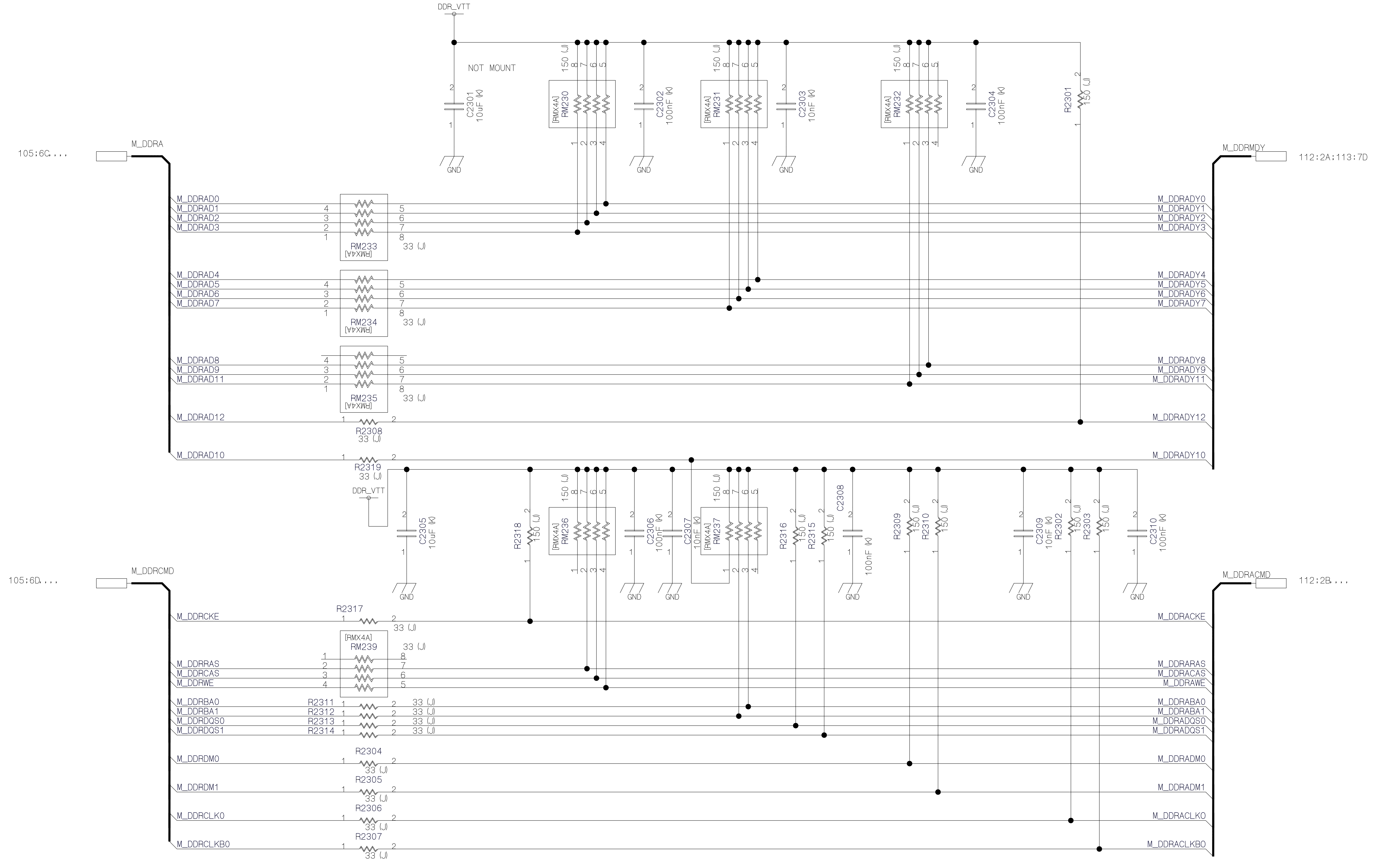
U05A DIGITAL [110] E2PROM (PE0284)


Internal Communication
port with TV side
3.3V
R2101 4.7K (J)
R2102 NOT MOUNT
R2103 4.7K (J)
C2101 220pF (J)
GND
101:6C
M_UP_RXD
R2105
FL211 600ohm
101:6C
M_UP_TXD
R2106
FL212 600ohm
101:2C
M_UP_IRQ
FL213 0 (X)
R2107
FL214 600ohm
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
104:7D
104:7D
104:7D
104:7D
R2104 NOT MOUNT
C2102 220pF (J)
101:6B:111:1E
101:6B:111:1E
M_UATXD0
M_UARXD0
104:6D
D_JTAG_TCK
NOT MOUNT
NOT MOUNT
R2111
104:6D
104:6D
104:6D
104:6D
D_JTAG_TMS
D_JTAG_TRST_N
D_JTAG_TDI
D_JTAG_TDO
[RMX4A]
RM211
0 (X)
116:7E
M_DEBUG_ON
101:2B:108:8B:118:5B
M_GRESET_N
108:1B
EJRESET
TP002
TP003
117:6D
M_CE3
117:6C:118:5B:405:2C
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
M_SBD0
M_SBD1
M_SBD2
M_SBD3
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
M_SBD4
M_SBD5
M_SBD6
M_SBD7
117:6E:118:5B:400:3C
117:6E:118:5B:400:3C
SBADD0と SHARE
117:6D
117:6D:118:5C:404:3B
M_WE
M_OE
M_CE1
M_BE0
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
M_SBA1
M_SBA2
M_SBA3
M_SBA4
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
M_SBA5
M_SBA6
M_SBA7
M_SBA8
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
M_SBA9
M_SBA10
M_SBA11
M_SBA12
116:7D:118:1B:118:5D:404:3C
116:7D:118:1B:118:5D:404:3C
116:7D:118:1B:118:5D:400:3C
M_SBA13
M_SBA14
M_SBA15
102:2C:400:3C
101:2C
M_SBACK
M_INT_LAN
NOT MOUNT
FL217 60ohm
DEBUG SIO /
JTAG CONNECTOR
DEBUG BOARD
TP101 … TP150
[TP]
D2100 MOUNT 1SS302 (TE85R, F)
D2101 MOUNT 1SS302 (TE85R, F)
[CMD]
101:6B:111:5A
101:6B:111:5A
R2112 4.7K (J)
FL215 600ohm
V22A00020900
S4B-EH (LF) (SN)
[CN4]
PJ212
R2109
R2110
Serial port
for debug
<DEBUG>
1:GND
2:Donau TXD
3:Donau RXD
4:5V
1 2 3 4 5 6 7 8
A B C D E F

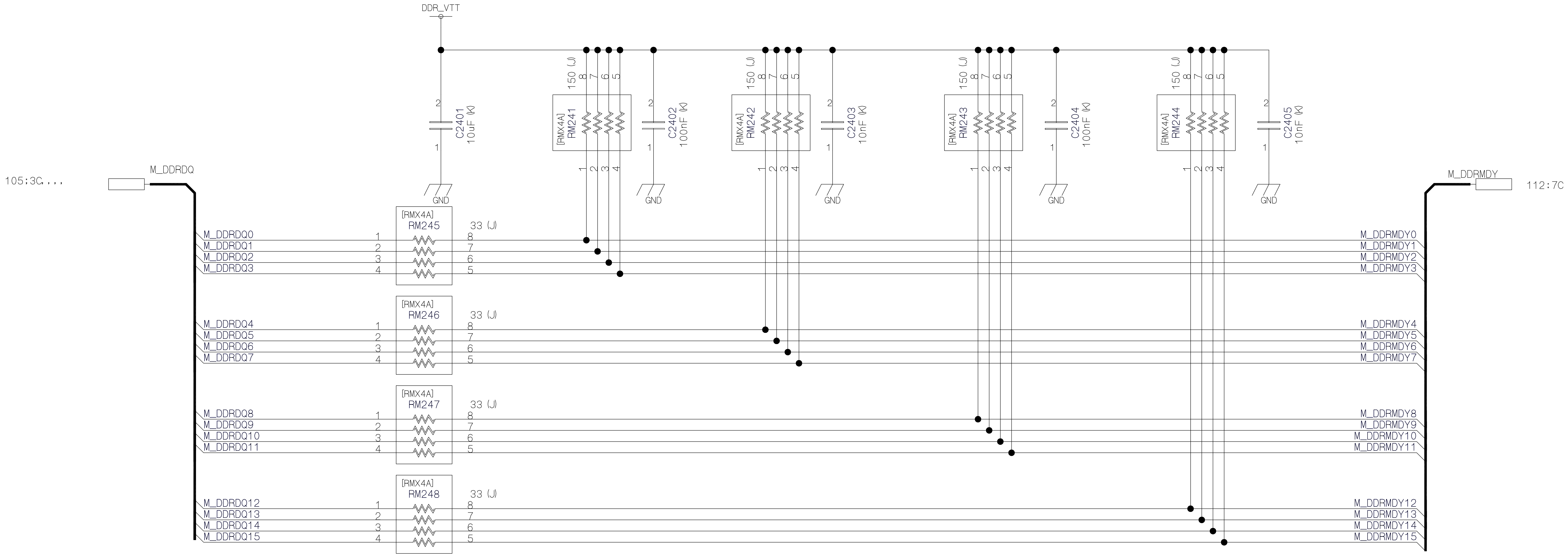
U05A DIGITAL [111] SERIAL/EJTAG (PE0284)


TSOP II
[MDSD16M16]
IC221
V46A00009100
HYB25DC256160CE-6
113:7B, 113:7D
M_DDRADY
M_DDRADY0 29 A0
M_DDRADY1 30 A1
M_DDRADY2 31 A2
M_DDRADY3 32 A3
M_DDRADY4 35 A4
M_DDRADY5 36 A5
M_DDRADY6 37 A6
M_DDRADY7 38 A7
M_DDRADY8 39 A8
M_DDRADY9 40 A9
M_DDRADY10 28 A10/AP
M_DDRADY11 41 A11
M_DDRADY12 42 A12
113:7D
M_DDRCMD
M_DDRABA1 27 BS1
M_DDRABA0 26 BS0
M_DDRACLKB0 46 CLK
M_DDRACLK0 45 CLK
M_DDRACKE 44 CKE
GND 24 CS
M_DDRARAS 23 RAS
M_DDRACAS 22 CAS
M_DDRAWE 21 WE
R2201 M_DDRADM0 20 LDM
R2202 M_DDRADM1 47 UDM
R2203 M_DDRADQS0 16 LDQS
R2204 M_DDRADQS1 51 UDQS
33 (J)
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
M_DDRMDY
114:7B
RM221 [RMX4A] 33 (J)
RM222 [RMX4A] 33 (J)
RM223 [RMX4A] 33 (J)
RM224 [RMX4A] 33 (J)
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15
2.5V-Reg
3 [VDDQ] [VSSQ] 6
9 [VDDQ] [VSSQ] 12
15 [VDDQ] [VSSQ] 52
55 [VDDQ] [VSSQ] 58
61 [VDDQ] [VSSQ] 64
1 [VDD] [VSS] 34
18 [VDD] [VSS] 48
33 [VDD] [VSS] 66
49 [VREF]
105:3D:115:6C
M_DDRVREF
C2207 47pF (J)
GND
C2201 100nF (K)
C2202 100nF (K)
C2203 100nF (K)
C2204 100nF (K)
C2205 100nF (K)
C2206 100nF (K)
C2208 10nF (K)
C2209 10nF (K)
C2210 10nF (K)
C2211 10nF (K)
C2212 10nF (K)
C2213 10nF (K)
1 2 3 4 5 6 7 8
A B C D E F

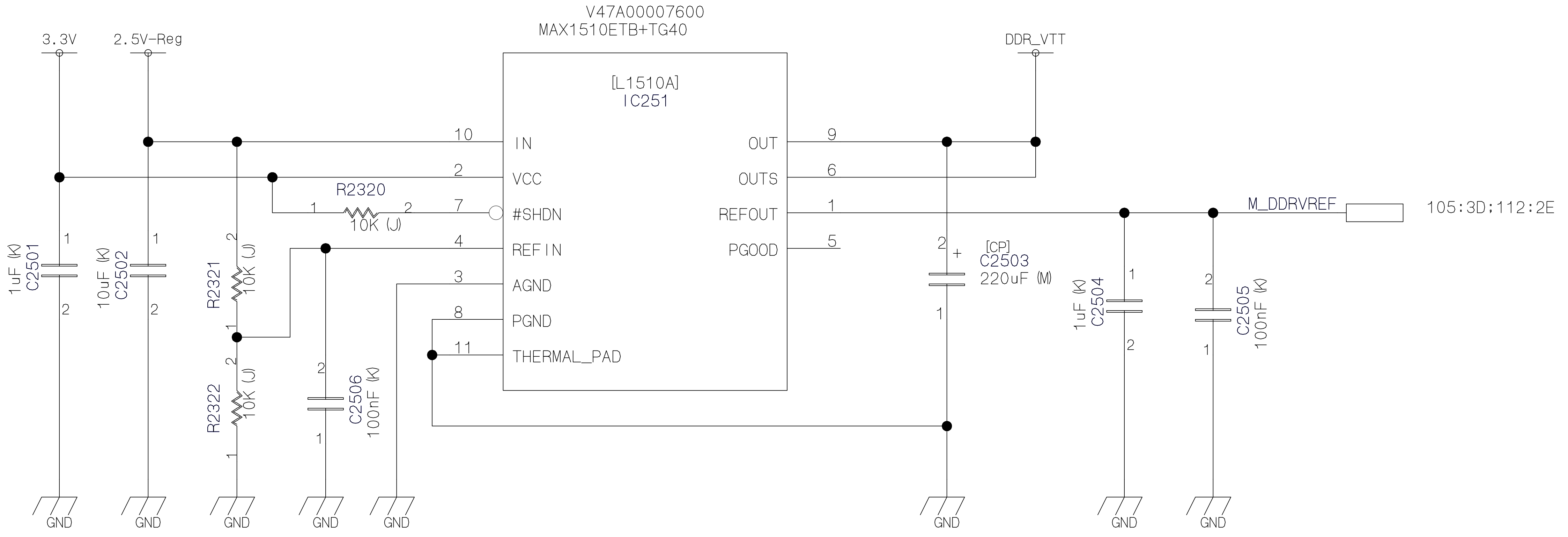
U05A DIGITAL [112] DDR1 SDRAM (PE0284)


DDR_VTT
NOT MOUNT
C2301 10uF (K)
150 (J) RM230 [RMX4A]
C2302 100nF (K)
150 (J) RM231 [RMX4A]
C2303 10nF (K)
150 (J) RM232 [RMX4A]
C2304 100nF (K)
R2301 150 (J)
GND
105:6C...
M_DDRA
M_DDRMDY
112:2A;113:7D
M_DDRAD0
M_DDRAD1
M_DDRAD2
M_DDRAD3
RM233 [RMX4A] 33 (J)
M_DDRAD4
M_DDRAD5
M_DDRAD6
M_DDRAD7
RM234 [RMX4A] 33 (J)
M_DDRAD8
M_DDRAD9
M_DDRAD11
RM235 [RMX4A] 33 (J)
M_DDRAD12
R2308 33 (J)
M_DDRAD10
R2319 33 (J)
M_DDRADY0
M_DDRADY1
M_DDRADY2
M_DDRADY3
M_DDRADY4
M_DDRADY5
M_DDRADY6
M_DDRADY7
M_DDRADY8
M_DDRADY9
M_DDRADY11
M_DDRADY12
M_DDRADY10
DDR_VTT
C2305 10uF (K)
R2318 150 (J)
150 (J) RM236 [RMX4A]
C2306 100nF (K)
C2307 10nF (K)
150 (J) RM237 [RMX4A]
R2316 150 (J)
R2315 150 (J)
C2308 100nF (K)
R2309 150 (J)
R2310 150 (J)
C2309 10nF (K)
R2302 150 (J)
R2303 150 (J)
C2310 100nF (K)
105:6D...
M_DDRCMD
M_DDRACMD
112:2B...
M_DDRCKE
R2317 33 (J)
RM239 [RMX4A] 33 (J)
M_DDRRAS
M_DDRCAS
M_DDRWE
M_DDRBA0
M_DDRBA1
M_DDRDQS0
M_DDRDQS1
R2311 33 (J)
R2312 33 (J)
R2313 33 (J)
R2314 33 (J)
M_DDRDM0
R2304 33 (J)
M_DDRDM1
R2305 33 (J)
M_DDRCLK0
R2306 33 (J)
M_DDRCLKB0
R2307 33 (J)
M_DDRACKE
M_DDRARAS
M_DDRACAS
M_DDRAWE
M_DDRABA0
M_DDRABA1
M_DDRADQS0
M_DDRADQS1
M_DDRADM0
M_DDRADM1
M_DDRACLK0
M_DDRACLKB0

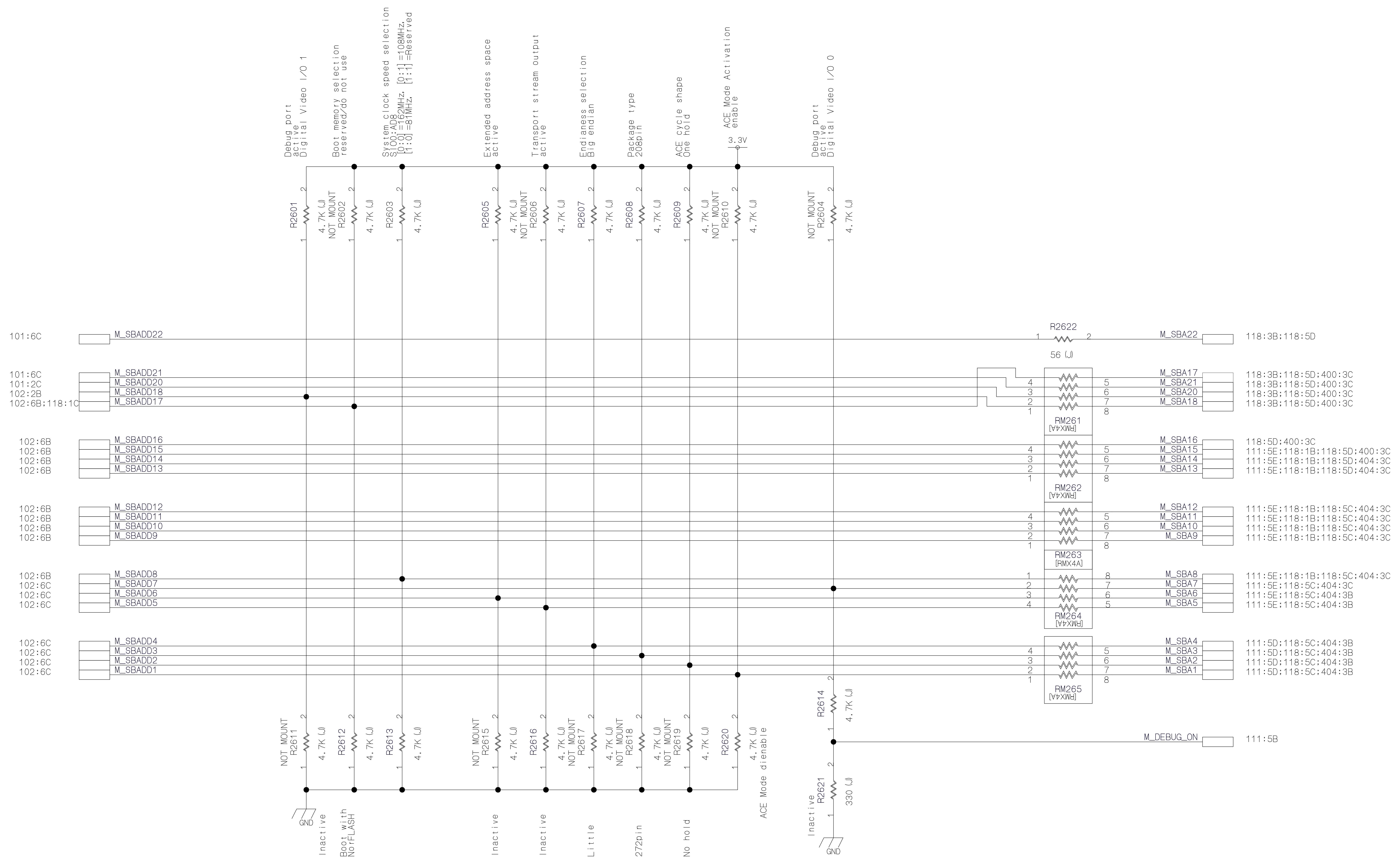
U05A DIGITAL [113] TERMINATE (PE0284)


DDR_VTT
C2401
10uF (K)
[RMX4A]
RM241
150 (J)
C2402
100nF (K)
[RMX4A]
RM242
150 (J)
C2403
10nF (K)
[RMX4A]
RM243
150 (J)
C2404
100nF (K)
[RMX4A]
RM244
150 (J)
C2405
10nF (K)
GND
105:3C...
M_DDRDQ
M_DDRMDY
112:7C
[RMX4A]
RM245
33 (J)
M_DDRDQ0
M_DDRDQ1
M_DDRDQ2
M_DDRDQ3
[RMX4A]
RM246
33 (J)
M_DDRDQ4
M_DDRDQ5
M_DDRDQ6
M_DDRDQ7
[RMX4A]
RM247
33 (J)
M_DDRDQ8
M_DDRDQ9
M_DDRDQ10
M_DDRDQ11
[RMX4A]
RM248
33 (J)
M_DDRDQ12
M_DDRDQ13
M_DDRDQ14
M_DDRDQ15
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15

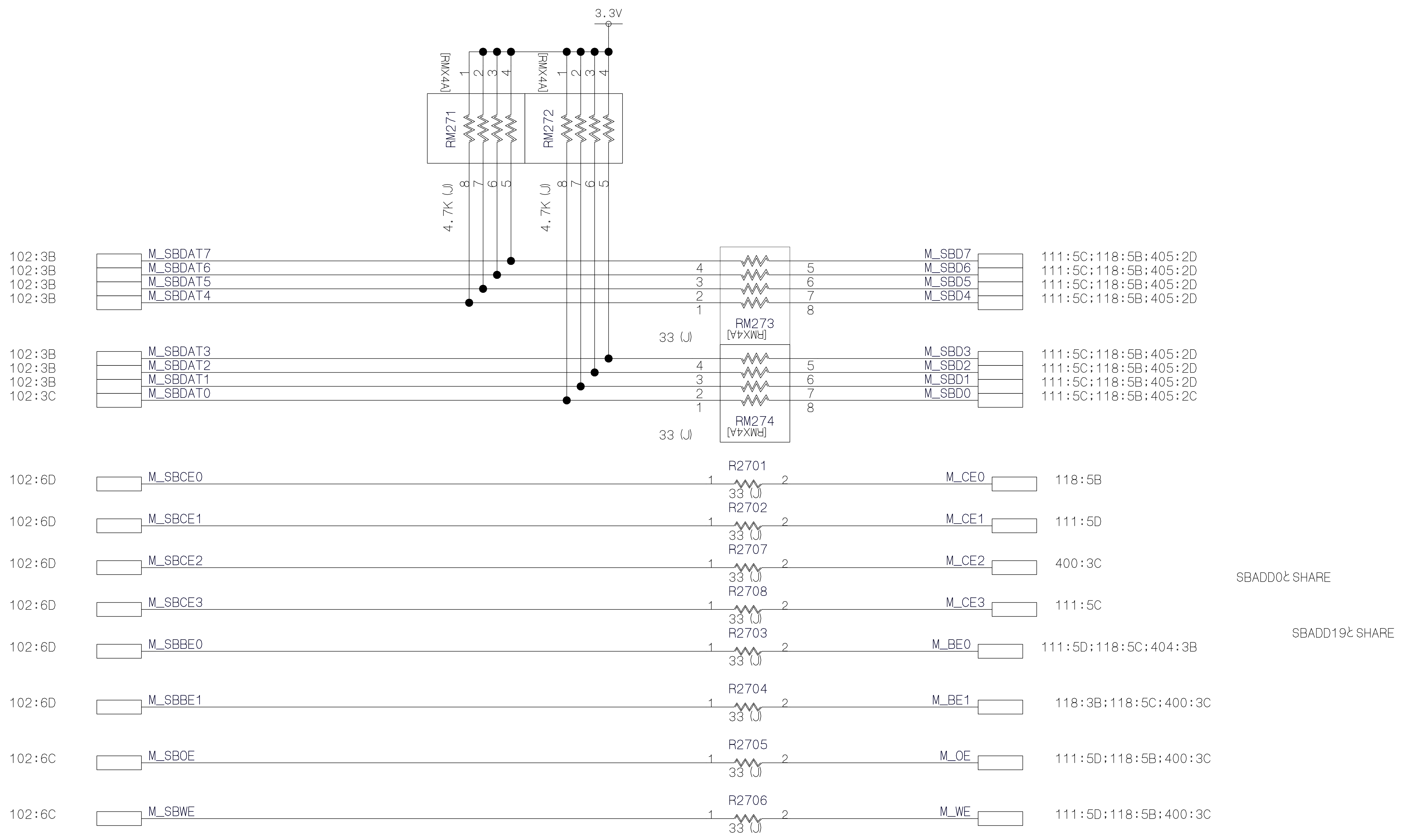
U05A DIGITAL [114] TERMINATE (PE0284)


V47A00007600
MAX1510ETB+TG40
[L1510A]
IC251
3.3V
2.5V-Reg
DDR_VTT
10
IN
2
VCC
7
#SHDN
4
REFIN
3
AGND
8
PGND
11
THERMAL_PAD
OUT
9
OUTS
6
REFOUT
1
PGOOD
5
R2320
10K (J)
R2321
10K (J)
R2322
10K (J)
1uF (K)
C2501
10uF (K)
C2502
C2506
100nF (K)
[CP]
C2503
220uF (M)
1uF (K)
C2504
C2505
100nF (K)
M_DDRVREF
105:3D;112:2E
GND

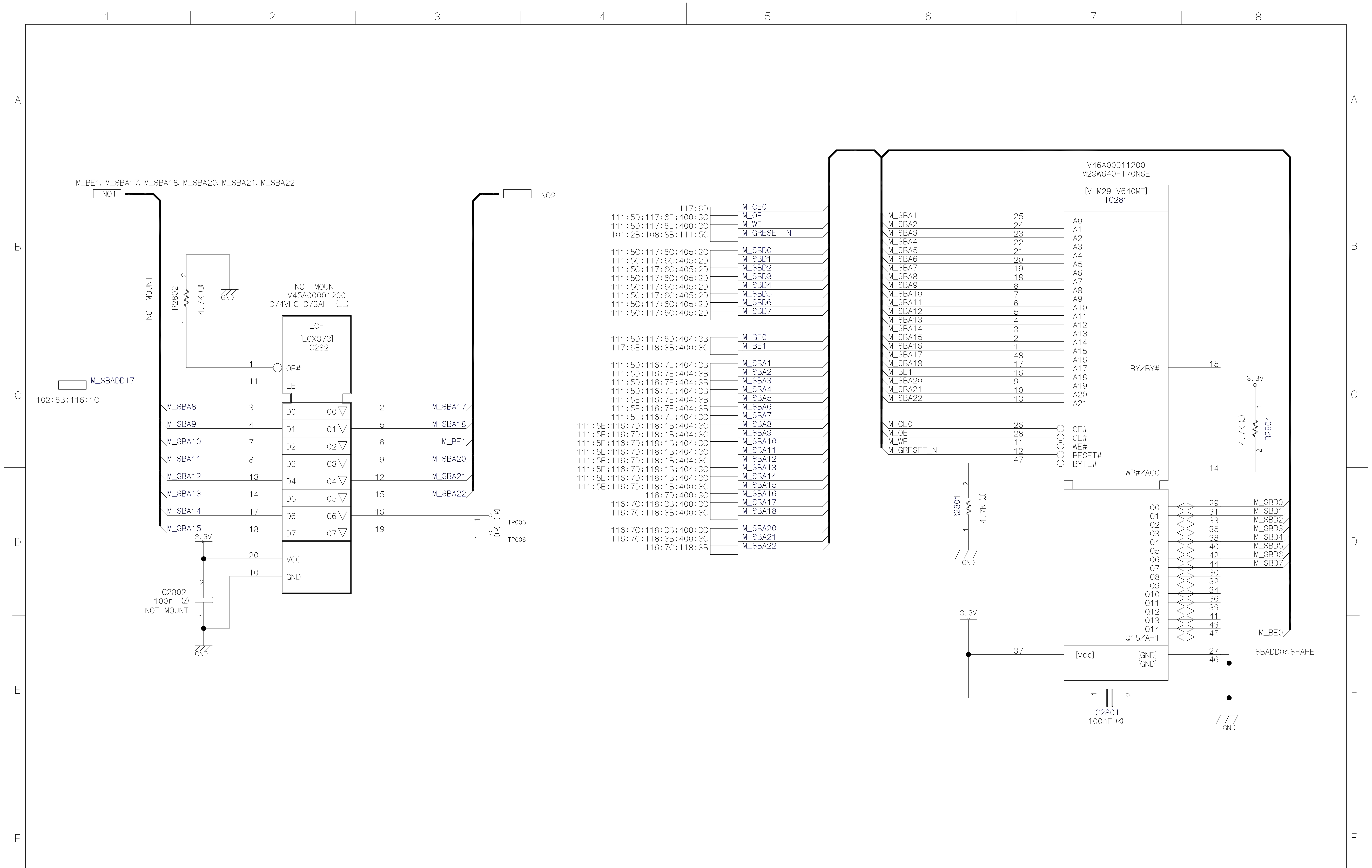
U05A DIGITAL [115] TERMINATE (PE0284)


Debug port
active
Digital Video I/O 1
Boot memory selection
reserved/do not use
System clock speed selection
SI00:AD8
[0:0] =162MHz, [0:1] =108MHz,
[1:0] =81MHz, [1:1] =Reserved
Extended address space
active
Transport stream output
active
Endianess selection
Big endian
Package type
208pin
ACE cycle shape
One hold
ACE Mode Activation
enable
3.3V
Debug port
active
Digital Video I/O 0
R2601
4.7K (J)
NOT MOUNT
R2602
4.7K (J)
R2603
4.7K (J)
R2605
4.7K (J)
NOT MOUNT
R2606
4.7K (J)
R2607
4.7K (J)
R2608
4.7K (J)
R2609
4.7K (J)
NOT MOUNT
R2610
4.7K (J)
NOT MOUNT
R2604
4.7K (J)
101:6C
M_SBADD22
101:6C
101:2C
102:2B
102:6B;118:1C
M_SBADD21
M_SBADD20
M_SBADD18
M_SBADD17
102:6B
102:6B
102:6B
102:6B
M_SBADD16
M_SBADD15
M_SBADD14
M_SBADD13
102:6B
102:6B
102:6B
102:6B
M_SBADD12
M_SBADD11
M_SBADD10
M_SBADD9
102:6B
102:6C
102:6C
102:6C
M_SBADD8
M_SBADD7
M_SBADD6
M_SBADD5
102:6C
102:6C
102:6C
102:6C
M_SBADD4
M_SBADD3
M_SBADD2
M_SBADD1
R2622
56 (J)
M_SBA22
118:3B;118:5D
RM261
[RMX4A]
M_SBA17
M_SBA21
M_SBA20
M_SBA18
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
RM262
[RMX4A]
M_SBA16
M_SBA15
M_SBA14
M_SBA13
118:5D;400:3C
111:5E;118:1B;118:5D;400:3C
111:5E;118:1B;118:5D;404:3C
111:5E;118:1B;118:5D;404:3C
RM263
[RMX4A]
M_SBA12
M_SBA11
M_SBA10
M_SBA9
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
RM264
[RMX4A]
M_SBA8
M_SBA7
M_SBA6
M_SBA5
111:5E;118:1B;118:5C;404:3C
111:5E;118:5C;404:3C
111:5E;118:5C;404:3B
111:5E;118:5C;404:3B
RM265
[RMX4A]
M_SBA4
M_SBA3
M_SBA2
M_SBA1
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
R2614
4.7K (J)
M_DEBUG_ON
111:5B
R2621
330 (J)
Inactive
GND
NOT MOUNT
R2611
4.7K (J)
R2612
4.7K (J)
R2613
4.7K (J)
NOT MOUNT
R2615
4.7K (J)
R2616
4.7K (J)
NOT MOUNT
R2617
4.7K (J)
NOT MOUNT
R2618
4.7K (J)
NOT MOUNT
R2619
4.7K (J)
R2620
4.7K (J)
ACE Mode dienable
GND
Inactive
Boot with
NorFLASH
Inactive
Inactive
Little
272pin
No hold

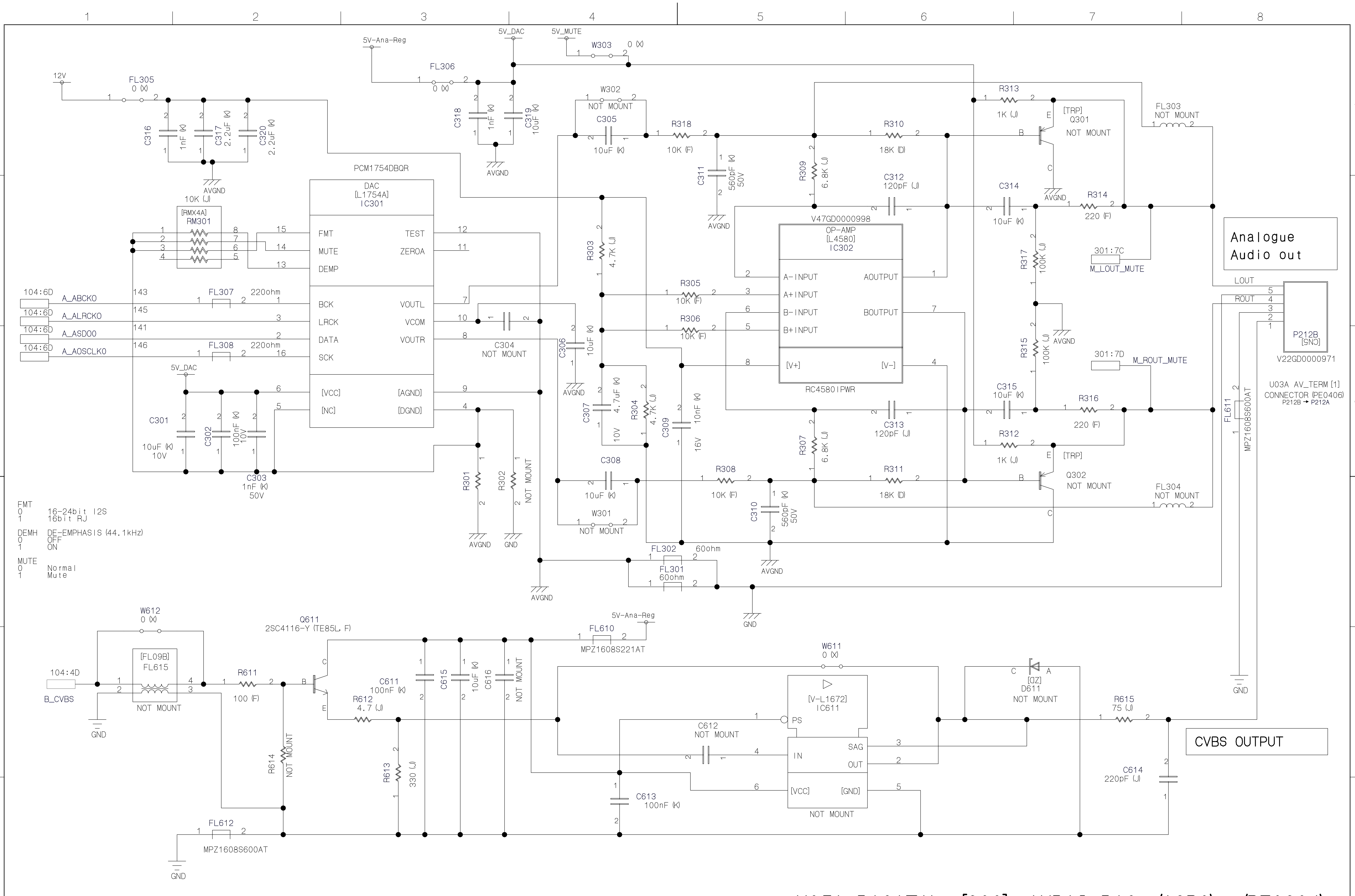
U05A DIGITAL [116] PIN CONFIG (PE0284)


3.3V
[RMX4A]
RM271
1 2 3 4
8 7 6 5
4.7K (J)
[RMX4A]
RM272
1 2 3 4
8 7 6 5
4.7K (J)
102:3B M_SBDAT7
102:3B M_SBDAT6
102:3B M_SBDAT5
102:3B M_SBDAT4
4 3 2 1
5 6 7 8
RM273
[RMX4A]
33 (J)
M_SBD7 111:5C;118:5B;405:2D
M_SBD6 111:5C;118:5B;405:2D
M_SBD5 111:5C;118:5B;405:2D
M_SBD4 111:5C;118:5B;405:2D
102:3B M_SBDAT3
102:3B M_SBDAT2
102:3B M_SBDAT1
102:3C M_SBDAT0
4 3 2 1
5 6 7 8
RM274
[RMX4A]
33 (J)
M_SBD3 111:5C;118:5B;405:2D
M_SBD2 111:5C;118:5B;405:2D
M_SBD1 111:5C;118:5B;405:2D
M_SBD0 111:5C;118:5B;405:2C
102:6D M_SBCE0 R2701 33 (J) M_CE0 118:5B
102:6D M_SBCE1 R2702 33 (J) M_CE1 111:5D
102:6D M_SBCE2 R2707 33 (J) M_CE2 400:3C
SBADD0と SHARE
102:6D M_SBCE3 R2708 33 (J) M_CE3 111:5C
SBADD19と SHARE
102:6D M_SBBE0 R2703 33 (J) M_BE0 111:5D;118:5C;404:3B
102:6D M_SBBE1 R2704 33 (J) M_BE1 118:3B;118:5C;400:3C
102:6C M_SBOE R2705 33 (J) M_OE 111:5D;118:5B;400:3C
102:6C M_SBWE R2706 33 (J) M_WE 111:5D;118:5B;400:3C
1 2

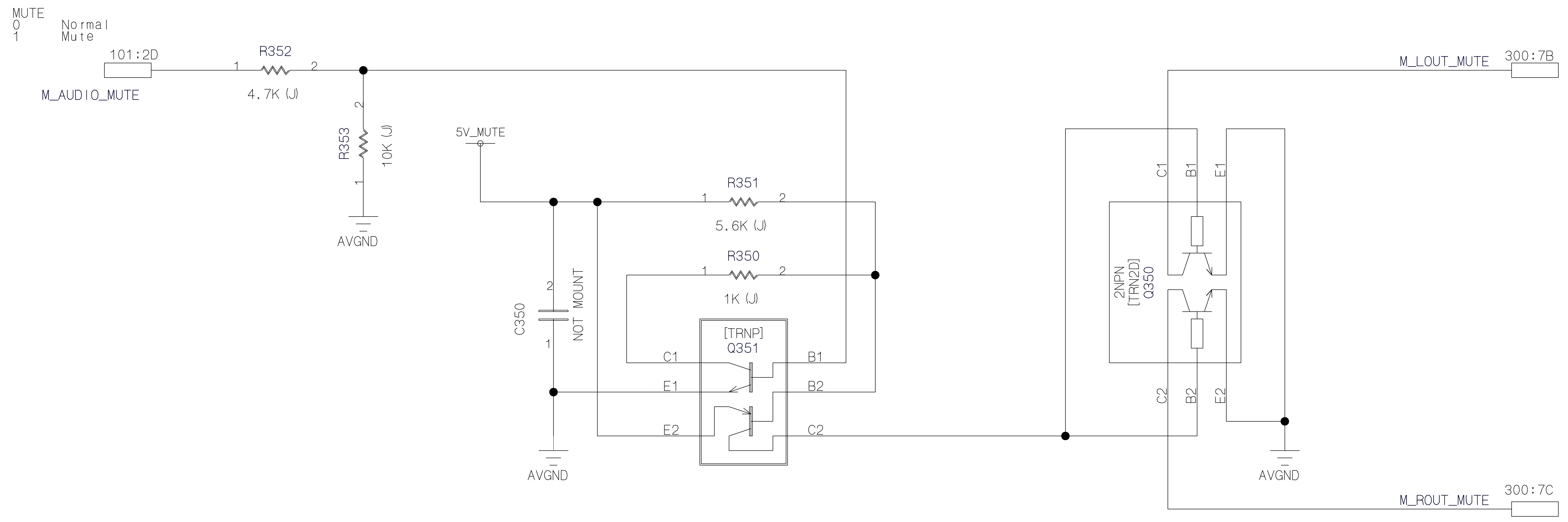
U05A DIGITAL [117] SBD REGISTER (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
M_BE1, M_SBA17, M_SBA18, M_SBA20, M_SBA21, M_SBA22
N01
N02
NOT MOUNT
R2802
4.7K (J)
GND
NOT MOUNT
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC282
OE#
LE
M_SBADD17
102:6B;116:1C
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
M_SBA17
M_SBA18
M_BE1
M_SBA20
M_SBA21
M_SBA22
[TP]
TP005
TP006
3.3V
VCC
GND
C2802
100nF (Z)
NOT MOUNT
117:6D M_CE0
111:5D;117:6E;400:3C M_OE
111:5D;117:6E;400:3C M_WE
101:2B;108:8B;111:5C M_GRESET_N
111:5C;117:6C;405:2C M_SBD0
111:5C;117:6C;405:2D M_SBD1
111:5C;117:6C;405:2D M_SBD2
111:5C;117:6C;405:2D M_SBD3
111:5C;117:6C;405:2D M_SBD4
111:5C;117:6C;405:2D M_SBD5
111:5C;117:6C;405:2D M_SBD6
111:5C;117:6C;405:2D M_SBD7
111:5D;117:6D;404:3B M_BE0
117:6E;118:3B;400:3C M_BE1
111:5D;116:7E;404:3B M_SBA1
111:5D;116:7E;404:3B M_SBA2
111:5D;116:7E;404:3B M_SBA3
111:5D;116:7E;404:3B M_SBA4
111:5E;116:7E;404:3B M_SBA5
111:5E;116:7E;404:3B M_SBA6
111:5E;116:7E;404:3C M_SBA7
111:5E;116:7D;118:1B;404:3C M_SBA8
111:5E;116:7D;118:1B;404:3C M_SBA9
111:5E;116:7D;118:1B;404:3C M_SBA10
111:5E;116:7D;118:1B;404:3C M_SBA11
111:5E;116:7D;118:1B;404:3C M_SBA12
111:5E;116:7D;118:1B;404:3C M_SBA13
111:5E;116:7D;118:1B;404:3C M_SBA14
111:5E;116:7D;118:1B;400:3C M_SBA15
116:7D;400:3C M_SBA16
116:7C;118:3B;400:3C M_SBA17
116:7C;118:3B;400:3C M_SBA18
116:7C;118:3B;400:3C M_SBA20
116:7C;118:3B;400:3C M_SBA21
116:7C;118:3B M_SBA22
V46A00011200
M29W640FT70N6E
[V-M29LV640MT]
IC281
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
RY/BY#
CE#
OE#
WE#
RESET#
BYTE#
WP#/ACC
M_CE0
M_OE
M_WE
M_GRESET_N
R2804
4.7K (J)
R2801
4.7K (J)
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15/A-1
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_BE0
SBADD0とSHARE
[Vcc]
[GND]
[GND]
C2801
100nF (K)

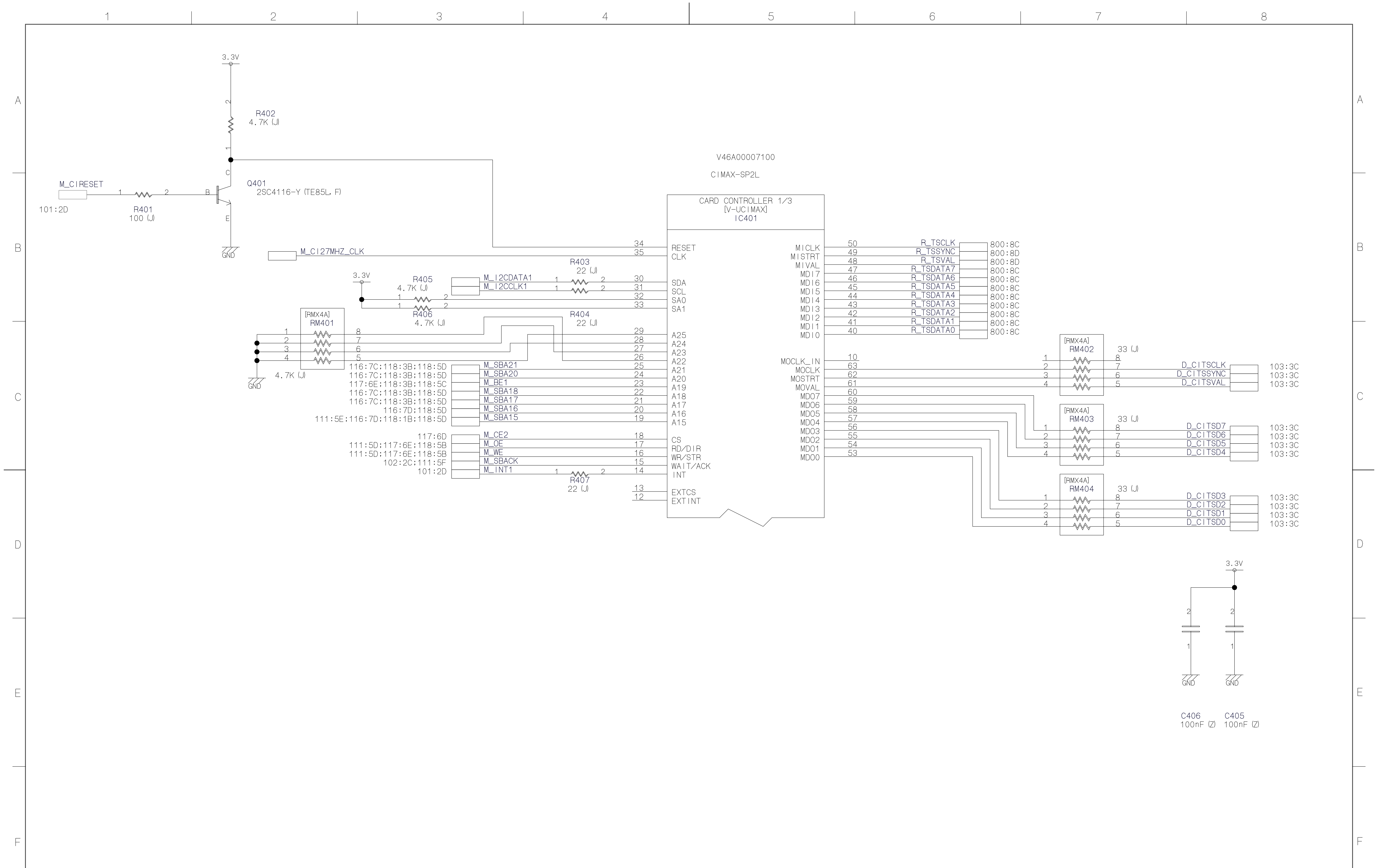
U05A DIGITAL [118] NOR FLASH (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
12V
FL305
0 (X)
C316
1nF (K)
C317
2.2uF (K)
C320
2.2uF (K)
AVGND
5V-Ana-Reg
FL306
0 (X)
5V_DAC
C318
1nF (K)
C319
10uF (K)
5V_MUTE
W303
0 (X)
W302
NOT MOUNT
C305
10uF (K)
R318
10K (F)
C311
560pF (K)
50V
R309
6.8K (J)
R310
18K (D)
C312
120pF (J)
R313
1K (J)
[TRP]
Q301
NOT MOUNT
FL303
NOT MOUNT
C314
10uF (K)
R314
220 (F)
PCM1754DBQR
DAC
[L1754A]
IC301
10K (J)
[RMX4A]
RM301
FMT
MUTE
DEMP
TEST
ZEROA
BCK
LRCK
DATA
SCK
VOUTL
VCOM
VOUTR
[VCC]
[NC]
[AGND]
[DGND]
104:6D
A_ABCKO
A_ALRCKO
A_ASDO0
A_AOSCLKO
FL307
220ohm
FL308
220ohm
5V_DAC
C301
10uF (K)
10V
C302
100nF (K)
10V
C303
1nF (K)
50V
C304
NOT MOUNT
C306
10uF (K)
AVGND
R303
4.7K (J)
R305
10K (F)
R306
10K (F)
C307
4.7uF (K)
10V
R304
4.7K (J)
C309
10nF (K)
16V
V47GD0000998
OP-AMP
[L4580]
IC302
A-INPUT
A+INPUT
B-INPUT
B+INPUT
AOUTPUT
BOUTPUT
[V+]
[V-]
RC4580IPWR
R317
100K (J)
R315
100K (J)
AVGND
301:7C
M_LOUT_MUTE
301:7D
M_ROUT_MUTE
Analogue
Audio out
LOUT
ROUT
P212B
[SNO]
V22GD0000971
U03A AV_TERM [1]
CONNECTOR (PE0406)
P212B → P212A
C315
10uF (K)
R316
220 (F)
C313
120pF (J)
R312
1K (J)
[TRP]
Q302
NOT MOUNT
R307
6.8K (J)
R311
18K (D)
FL304
NOT MOUNT
FL611
MPZ1608S600AT
C308
10uF (K)
R308
10K (F)
C310
560pF (K)
50V
W301
NOT MOUNT
R301
R302
NOT MOUNT
AVGND
GND
FL302
60ohm
FL301
60ohm
AVGND
GND
FMT
0 16-24bit I2S
1 16bit RJ
DEMH DE-EMPHASIS (44.1kHz)
0 OFF
1 ON
MUTE
0 Normal
1 Mute
W612
0 (X)
104:4D
B_CVBS
[FL09B]
FL615
NOT MOUNT
GND
R611
100 (F)
Q611
2SC4116-Y (TE85L, F)
R612
4.7 (J)
C611
100nF (K)
C615
C616
10uF (K)
NOT MOUNT
FL610
MPZ1608S221AT
5V-Ana-Reg
R614
NOT MOUNT
R613
330 (J)
FL612
MPZ1608S600AT
GND
W611
0 (X)
[V-L1672]
IC611
PS
IN
SAG
OUT
[VCC]
[GND]
NOT MOUNT
C612
NOT MOUNT
C613
100nF (K)
D611
[GZ]
NOT MOUNT
C
A
R615
75 (J)
C614
220pF (J)
CVBS OUTPUT
GND

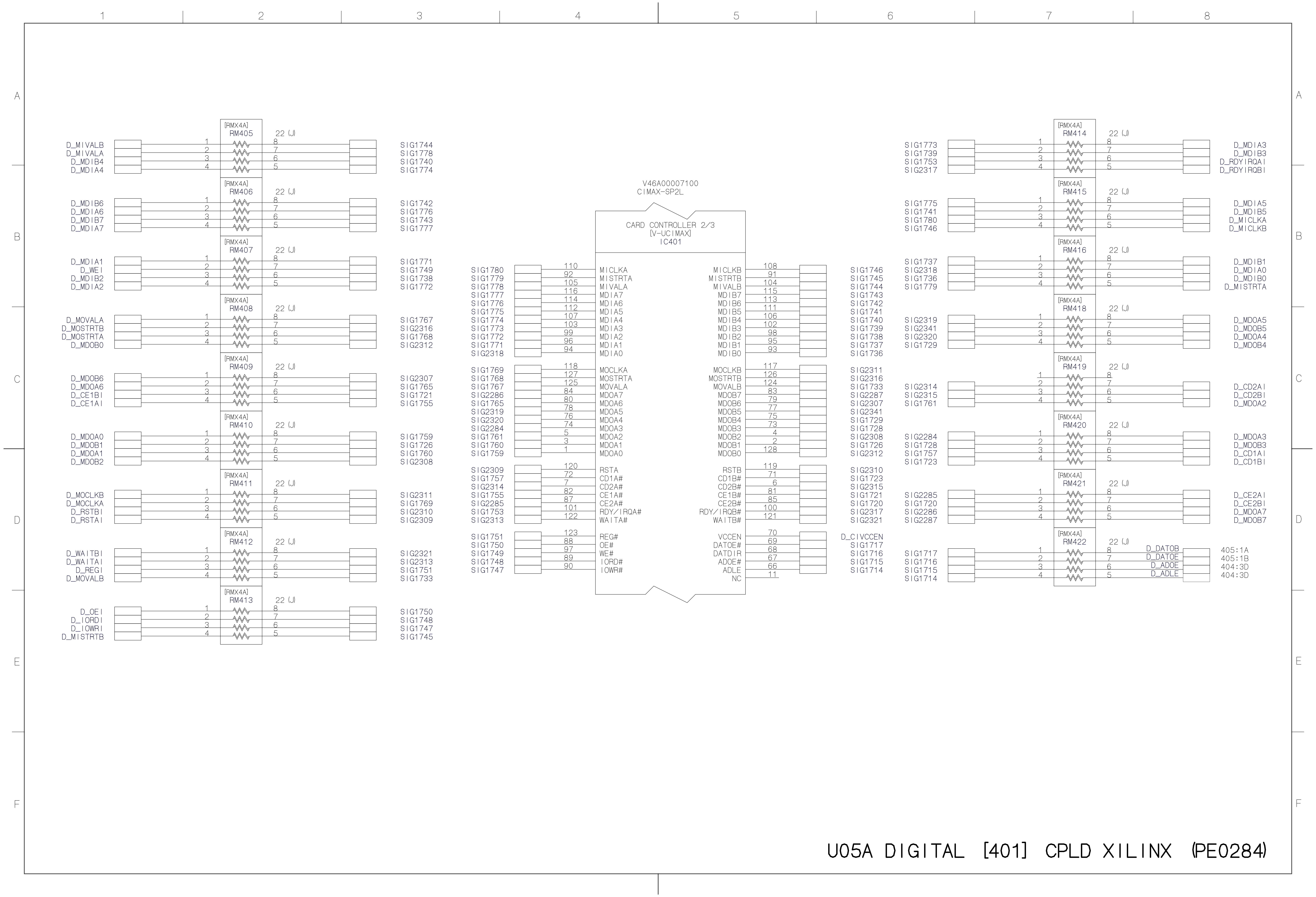
U05A DIGITAL [300] AUDIO DAC (ASP0) (PE0284)


MUTE
0 Normal
1 Mute
101:2D
M_AUDIO_MUTE
R352
1
2
4.7K (J)
R353
10K (J)
2
1
AVGND
5V_MUTE
R351
1
2
5.6K (J)
R350
1
2
1K (J)
C350
NOT MOUNT
2
1
AVGND
[TRNP]
Q351
C1
E1
E2
B1
B2
C2
M_LOUT_MUTE
300:7B
C1
B1
E1
2NPN
[TRN2D]
Q350
C2
B2
E2
AVGND
M_ROUT_MUTE
300:7C

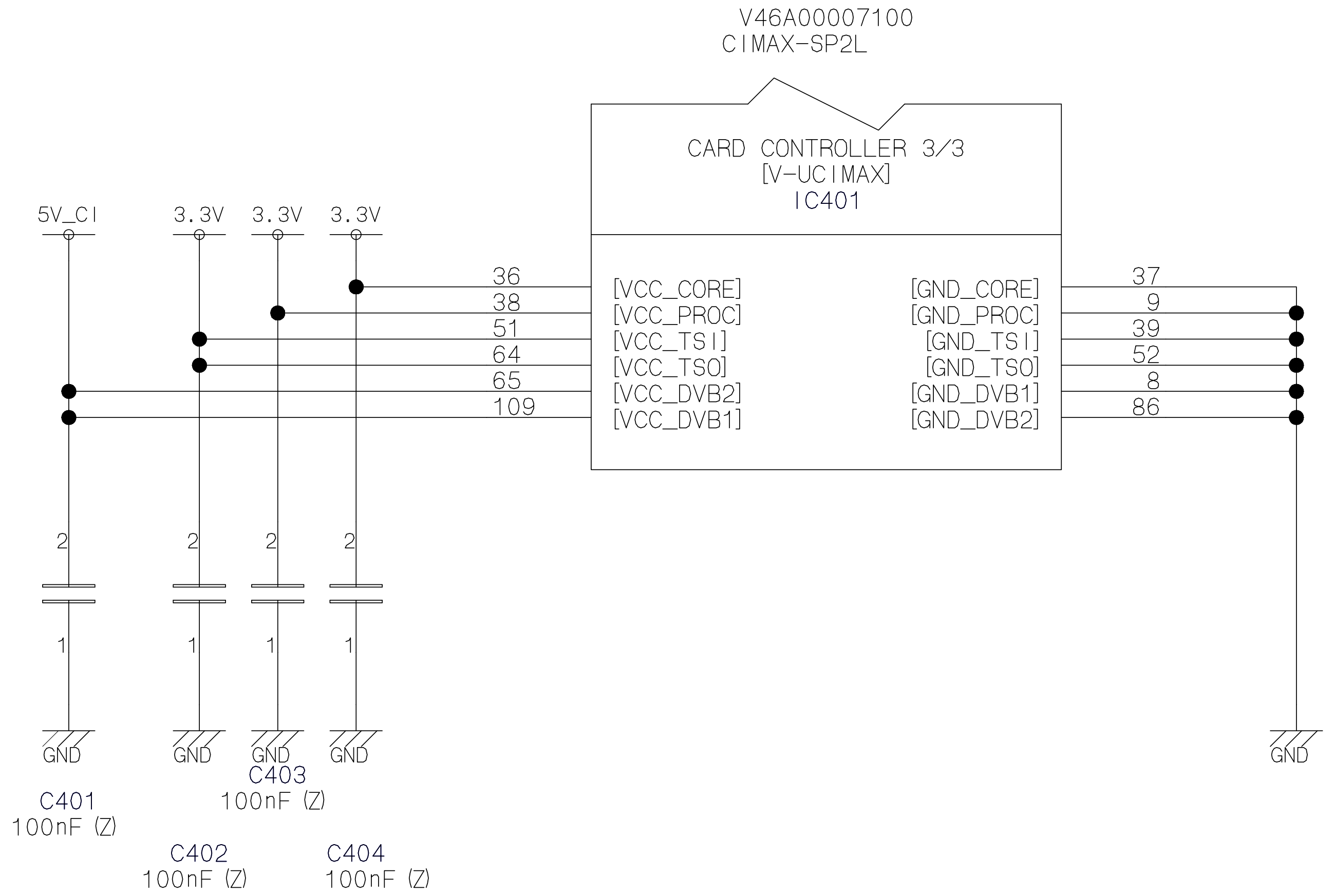
U05A DIGITAL [301] AUDIO MUTE (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V
R402
4.7K (J)
M_CIRESET
101:2D
R401
100 (J)
Q401
2SC4116-Y (TE85L, F)
GND
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 1/3
[V-UCIMAX]
IC401
M_CI27MHZ_CLK
34 RESET
35 CLK
R403
22 (J)
M_I2CDATA1
M_I2CCLK1
30 SDA
31 SCL
32 SA0
33 SA1
R405
4.7K (J)
R406
4.7K (J)
[RMX4A]
RM401
4.7K (J)
R404
22 (J)
29 A25
28 A24
27 A23
26 A22
25 A21
24 A20
23 A19
22 A18
21 A17
20 A16
19 A15
116:7C:118:3B:118:5D M_SBA21
116:7C:118:3B:118:5D M_SBA20
117:6E:118:3B:118:5C M_BE1
116:7C:118:3B:118:5D M_SBA18
116:7C:118:3B:118:5D M_SBA17
116:7D:118:5D M_SBA16
111:5E:116:7D:118:1B:118:5D M_SBA15
117:6D M_CE2
111:5D:117:6E:118:5B M_OE
111:5D:117:6E:118:5B M_WE
102:2C:111:5F M_SBACK
101:2D M_INT1
18 CS
17 RD/DIR
16 WR/STR
15 WAIT/ACK
14 INT
R407
22 (J)
13 EXTCS
12 EXTINT
MICLK 50 R_TSCLK 800:8C
MISTRT 49 R_TSSYNC 800:8D
MIVAL 48 R_TSVAL 800:8D
MDI7 47 R_TSDATA7 800:8C
MDI6 46 R_TSDATA6 800:8C
MDI5 45 R_TSDATA5 800:8C
MDI4 44 R_TSDATA4 800:8C
MDI3 43 R_TSDATA3 800:8C
MDI2 42 R_TSDATA2 800:8C
MDI1 41 R_TSDATA1 800:8C
MDI0 40 R_TSDATA0 800:8C
MOCLK_IN 10
MOCLK 63
MOSTRT 62
MOVAL 61
MDO7 60
MDO6 59
MDO5 58
MDO4 57
MDO3 56
MDO2 55
MDO1 54
MDO0 53
[RMX4A]
RM402
33 (J)
D_CITSCLK 103:3C
D_CITSSYNC 103:3C
D_CITSVAL 103:3C
[RMX4A]
RM403
33 (J)
D_CITSD7 103:3C
D_CITSD6 103:3C
D_CITSD5 103:3C
D_CITSD4 103:3C
[RMX4A]
RM404
33 (J)
D_CITSD3 103:3C
D_CITSD2 103:3C
D_CITSD1 103:3C
D_CITSD0 103:3C
C406
100nF (Z)
C405
100nF (Z)

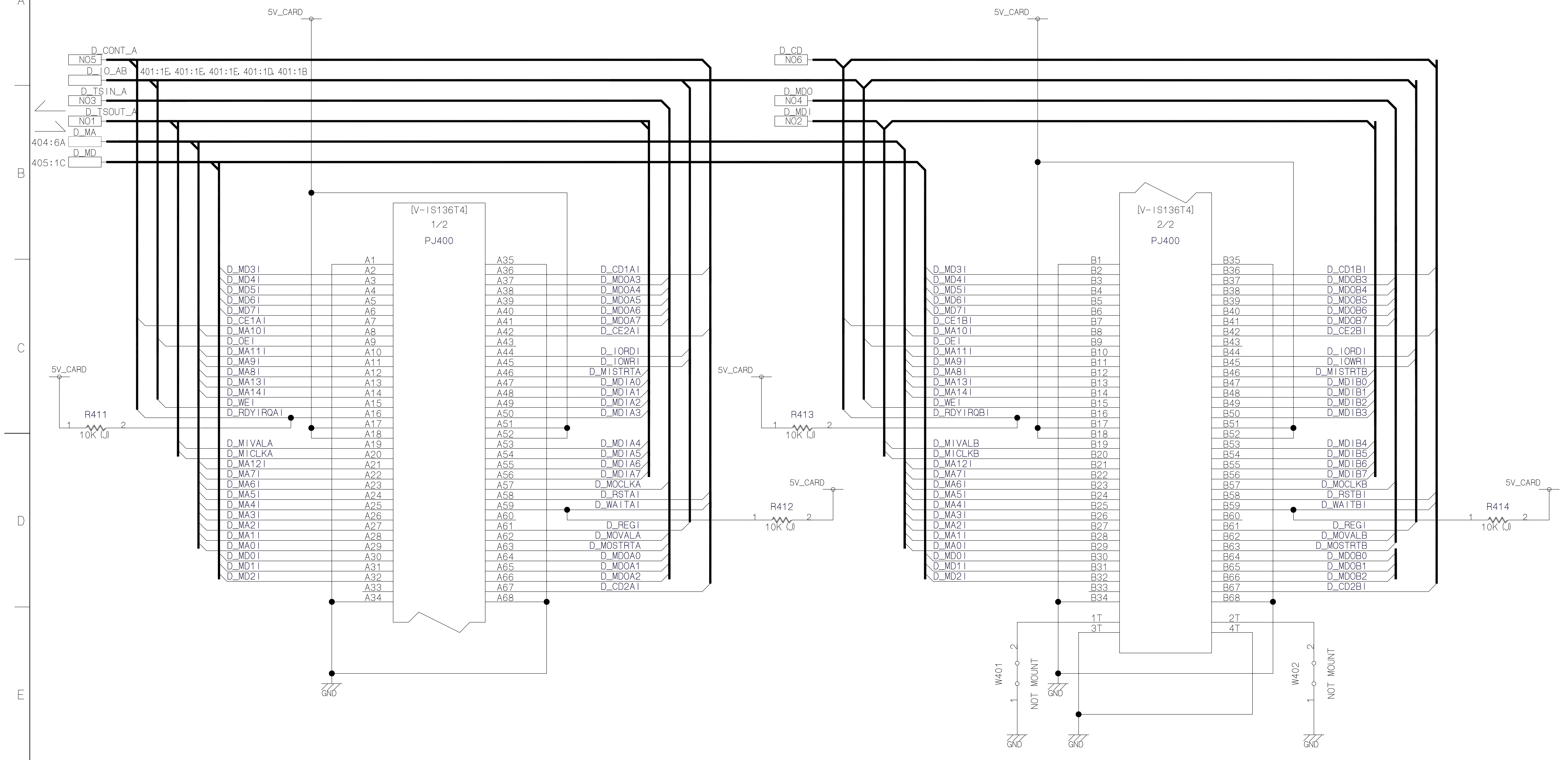
U05A DIGITAL [400] CIMAX (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[RMX4A]
RM405
22 (J)
D_MIVALB
D_MIVALA
D_MDIB4
D_MDIA4
SIG1744
SIG1778
SIG1740
SIG1774
[RMX4A]
RM406
22 (J)
D_MDIB6
D_MDIA6
D_MDIB7
D_MDIA7
SIG1742
SIG1776
SIG1743
SIG1777
[RMX4A]
RM407
22 (J)
D_MDIA1
D_WEI
D_MDIB2
D_MDIA2
SIG1771
SIG1749
SIG1738
SIG1772
[RMX4A]
RM408
22 (J)
D_MOVALA
D_MOSTRTB
D_MOSTRTA
D_MDOB0
SIG1767
SIG2316
SIG1768
SIG2312
[RMX4A]
RM409
22 (J)
D_MDOB6
D_MDOA6
D_CE1BI
D_CE1AI
SIG2307
SIG1765
SIG1721
SIG1755
[RMX4A]
RM410
22 (J)
D_MDOA0
D_MDOB1
D_MDOA1
D_MDOB2
SIG1759
SIG1726
SIG1760
SIG2308
[RMX4A]
RM411
22 (J)
D_MOCLKB
D_MOCLKA
D_RSTBI
D_RSTAI
SIG2311
SIG1769
SIG2310
SIG2309
[RMX4A]
RM412
22 (J)
D_WAITBI
D_WAITAI
D_REGI
D_MOVALB
SIG2321
SIG2313
SIG1751
SIG1733
[RMX4A]
RM413
22 (J)
D_OEI
D_IORDI
D_IOWRI
D_MISTRTB
SIG1750
SIG1748
SIG1747
SIG1745
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 2/3
[V-UCIMAX]
IC401
SIG1780 110 MICLKA
SIG1779 92 MISTRTA
SIG1778 105 MIVALA
SIG1777 116 MDIA7
SIG1776 114 MDIA6
SIG1775 112 MDIA5
SIG1774 107 MDIA4
SIG1773 103 MDIA3
SIG1772 99 MDIA2
SIG1771 96 MDIA1
SIG2318 94 MDIA0
SIG1769 118 MOCLKA
SIG1768 127 MOSTRTA
SIG1767 125 MOVALA
SIG2286 84 MDOA7
SIG1765 80 MDOA6
SIG2319 78 MDOA5
SIG2320 76 MDOA4
SIG2284 74 MDOA3
SIG1761 5 MDOA2
SIG1760 3 MDOA1
SIG1759 1 MDOA0
SIG2309 120 RSTA
SIG1757 72 CD1A#
SIG2314 7 CD2A#
SIG1755 82 CE1A#
SIG2285 87 CE2A#
SIG1753 101 RDY/IRQA#
SIG2313 122 WAITA#
SIG1751 123 REG#
SIG1750 88 OE#
SIG1749 97 WE#
SIG1748 89 IORD#
SIG1747 90 IOWR#
MICLKB 108 SIG1746
MISTRTB 91 SIG1745
MIVALB 104 SIG1744
MDIB7 115 SIG1743
MDIB6 113 SIG1742
MDIB5 111 SIG1741
MDIB4 106 SIG1740
MDIB3 102 SIG1739
MDIB2 98 SIG1738
MDIB1 95 SIG1737
MDIB0 93 SIG1736
MOCLKB 117 SIG2311
MOSTRTB 126 SIG2316
MOVALB 124 SIG1733
MDOB7 83 SIG2287
MDOB6 79 SIG2307
MDOB5 77 SIG2341
MDOB4 75 SIG1729
MDOB3 73 SIG1728
MDOB2 4 SIG2308
MDOB1 2 SIG1726
MDOB0 128 SIG2312
RSTB 119 SIG2310
CD1B# 71 SIG1723
CD2B# 6 SIG2315
CE1B# 81 SIG1721
CE2B# 85 SIG1720
RDY/IRQB# 100 SIG2317
WAITB# 121 SIG2321
VCCEN 70 D_CIVCCEN
DATOE# 69 SIG1717
DATDIR 68 SIG1716
ADOE# 67 SIG1715
ADLE 66 SIG1714
NC 11
[RMX4A]
RM414
22 (J)
SIG1773
SIG1739
SIG1753
SIG2317
D_MDIA3
D_MDIB3
D_RDYIRQAI
D_RDYIRQBI
[RMX4A]
RM415
22 (J)
SIG1775
SIG1741
SIG1780
SIG1746
D_MDIA5
D_MDIB5
D_MICLKA
D_MICLKB
[RMX4A]
RM416
22 (J)
SIG1737
SIG2318
SIG1736
SIG1779
D_MDIB1
D_MDIA0
D_MDIB0
D_MISTRTA
[RMX4A]
RM418
22 (J)
SIG2319
SIG2341
SIG2320
SIG1729
D_MDOA5
D_MDOB5
D_MDOA4
D_MDOB4
[RMX4A]
RM419
22 (J)
SIG2314
SIG2315
SIG1761
D_CD2AI
D_CD2BI
D_MDOA2
[RMX4A]
RM420
22 (J)
SIG2284
SIG1728
SIG1757
SIG1723
D_MDOA3
D_MDOB3
D_CD1AI
D_CD1BI
[RMX4A]
RM421
22 (J)
SIG2285
SIG1720
SIG2286
SIG2287
D_CE2AI
D_CE2BI
D_MDOA7
D_MDOB7
[RMX4A]
RM422
22 (J)
SIG1717
SIG1716
SIG1715
SIG1714
D_DATOB 405:1A
D_DATOE 405:1B
D_ADOE 404:3D
D_ADLE 404:3D

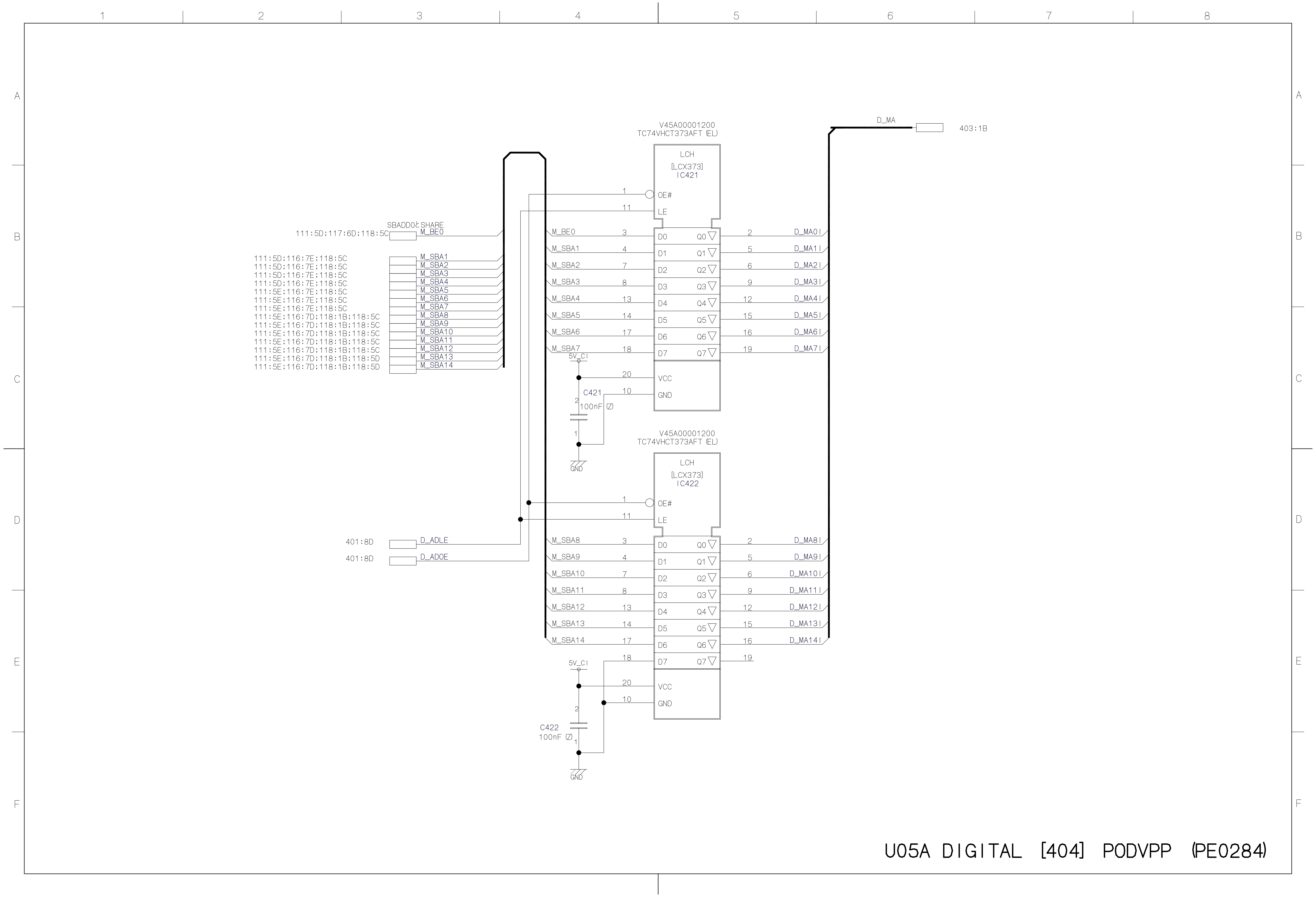
U05A DIGITAL [401] CPLD XILINX (PE0284)


V46A00007100
CIMAX-SP2L
CARD CONTROLLER 3/3
[V-UCIMAX]
IC401
5V_CI
3.3V
3.3V
3.3V
36
38
51
64
65
109
[VCC_CORE]
[VCC_PROC]
[VCC_TSI]
[VCC_TS0]
[VCC_DVB2]
[VCC_DVB1]
[GND_CORE]
[GND_PROC]
[GND_TSI]
[GND_TS0]
[GND_DVB1]
[GND_DVB2]
37
9
39
52
8
86
2
2
2
2
1
1
1
1
GND
GND
GND
GND
GND
C401
100nF (Z)
C402
100nF (Z)
C403
100nF (Z)
C404
100nF (Z)

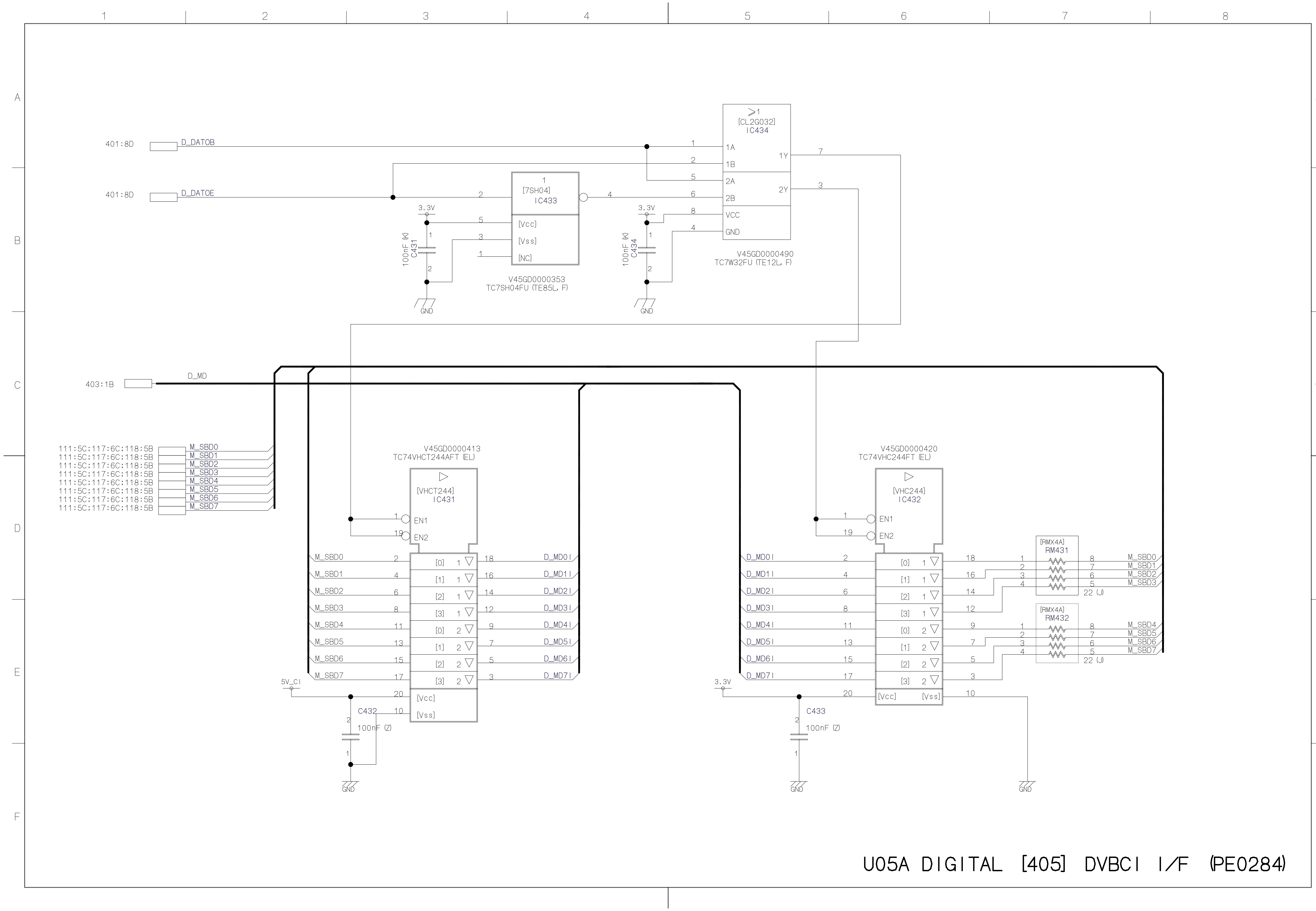
U05A DIGITAL [402] CPLD XILINX (PE0284)


5V_CARD
D_CONT_A
NO5
D_IO_AB
401:1E, 401:1E, 401:1E, 401:1D, 401:1B
D_TSIN_A
NO3
D_TSOUT_A
NO1
D_MA
404:6A
D_MD
405:1C
[V-IS136T4]
1/2
PJ400
A1
D_MD3I A2
D_MD4I A3
D_MD5I A4
D_MD6I A5
D_MD7I A6
D_CE1AI A7
D_MA10I A8
D_OEI A9
D_MA11I A10
D_MA9I A11
D_MA8I A12
D_MA13I A13
D_MA14I A14
D_WEI A15
D_RDYIRQAI A16
A17
A18
D_MIVALA A19
D_MICLKA A20
D_MA12I A21
D_MA7I A22
D_MA6I A23
D_MA5I A24
D_MA4I A25
D_MA3I A26
D_MA2I A27
D_MA1I A28
D_MA0I A29
D_MD0I A30
D_MD1I A31
D_MD2I A32
A33
A34
A35
A36 D_CD1AI
A37 D_MDOA3
A38 D_MDOA4
A39 D_MDOA5
A40 D_MDOA6
A41 D_MDOA7
A42 D_CE2AI
A43
A44 D_IORDI
A45 D_IOWRI
A46 D_MISTRTA
A47 D_MDIA0
A48 D_MDIA1
A49 D_MDIA2
A50 D_MDIA3
A51
A52
A53 D_MDIA4
A54 D_MDIA5
A55 D_MDIA6
A56 D_MDIA7
A57 D_MOCLKA
A58 D_RSTAI
A59 D_WAITAI
A60
A61 D_REGI
A62 D_MOVALA
A63 D_MOSTRTA
A64 D_MDOA0
A65 D_MDOA1
A66 D_MDOA2
A67 D_CD2AI
A68
GND
R411
10K (J)
1
2
R412
10K (J)
D_CD
NO6
D_MDO
NO4
D_MDI
NO2
[V-IS136T4]
2/2
PJ400
B1
D_MD3I B2
D_MD4I B3
D_MD5I B4
D_MD6I B5
D_MD7I B6
D_CE1BI B7
D_MA10I B8
D_OEI B9
D_MA11I B10
D_MA9I B11
D_MA8I B12
D_MA13I B13
D_MA14I B14
D_WEI B15
D_RDYIRQBI B16
B17
B18
D_MIVALB B19
D_MICLKB B20
D_MA12I B21
D_MA7I B22
D_MA6I B23
D_MA5I B24
D_MA4I B25
D_MA3I B26
D_MA2I B27
D_MA1I B28
D_MA0I B29
D_MD0I B30
D_MD1I B31
D_MD2I B32
B33
B34
B35
B36 D_CD1BI
B37 D_MDOB3
B38 D_MDOB4
B39 D_MDOB5
B40 D_MDOB6
B41 D_MDOB7
B42 D_CE2BI
B43
B44 D_IORDI
B45 D_IOWRI
B46 D_MISTRTB
B47 D_MDIB0
B48 D_MDIB1
B49 D_MDIB2
B50 D_MDIB3
B51
B52
B53 D_MDIB4
B54 D_MDIB5
B55 D_MDIB6
B56 D_MDIB7
B57 D_MOCLKB
B58 D_RSTBI
B59 D_WAITBI
B60
B61 D_REGI
B62 D_MOVALB
B63 D_MOSTRTB
B64 D_MDOB0
B65 D_MDOB1
B66 D_MDOB2
B67 D_CD2BI
B68
1T
3T
2T
4T
W401
NOT MOUNT
W402
NOT MOUNT
R413
10K (J)
R414
10K (J)
1 2 3 4 5 6 7 8
A B C D E F

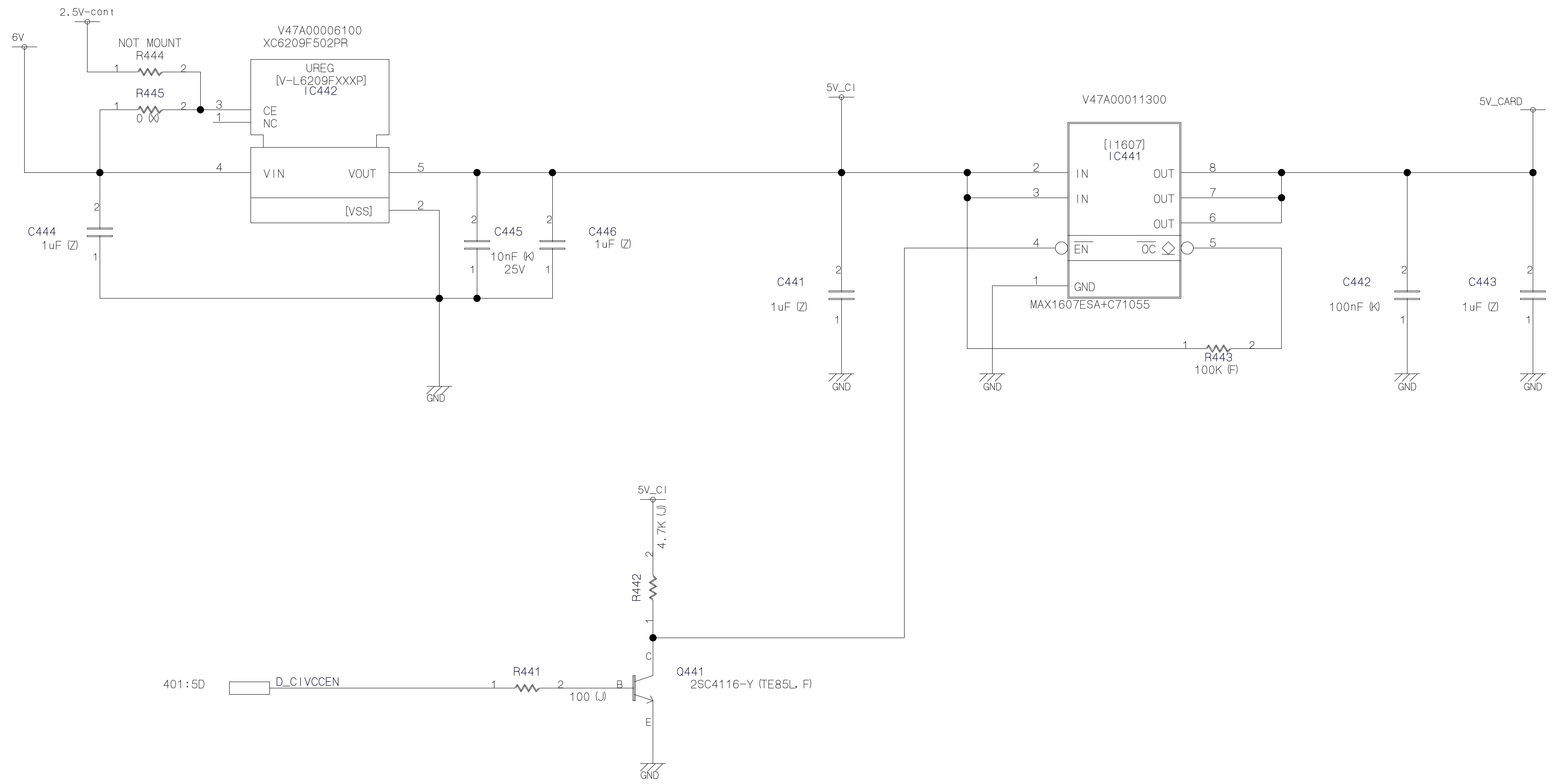
U05A DIGITAL [403] SLOWBUS (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
SBADD0と SHARE
111:5D;117:6D;118:5C
M_BE0
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5D
111:5E;116:7D;118:1B;118:5D
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC421
OE#
LE
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
VCC
GND
5V_C1
C421
100nF (Z)
GND
D_MA
403:1B
D_MA0
D_MA1
D_MA2
D_MA3
D_MA4
D_MA5
D_MA6
D_MA7
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC422
401:8D
D_ADLE
401:8D
D_ADOE
D_MA8
D_MA9
D_MA10
D_MA11
D_MA12
D_MA13
D_MA14
5V_C1
C422
100nF (Z)
GND

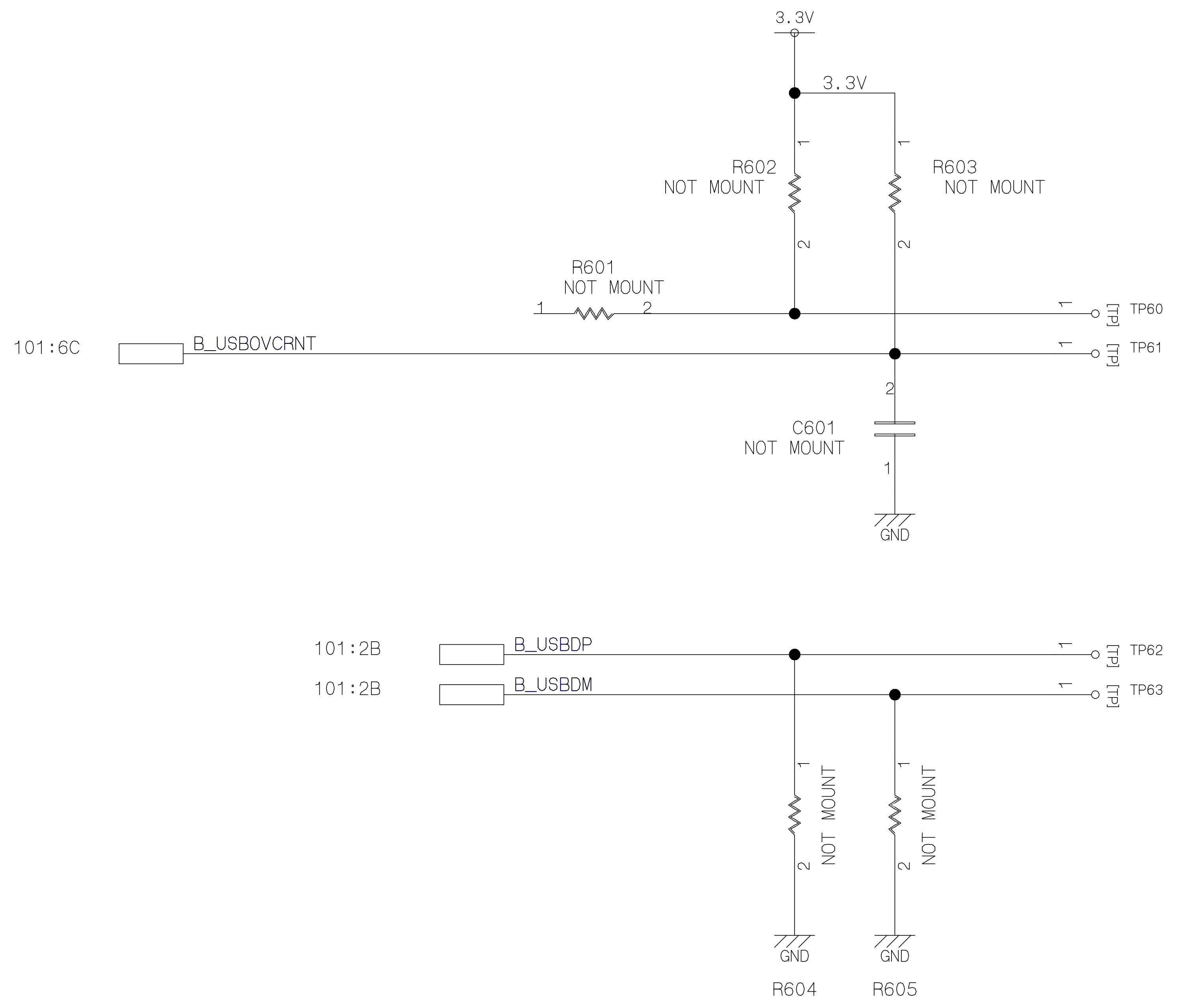
U05A DIGITAL [404] PODVPP (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
401:8D
D_DATOB
401:8D
D_DATOE
≥1
[CL2G032]
IC434
1A
1B
2A
2B
VCC
GND
1Y
2Y
V45GD0000490
TC7W32FU (TE12L, F)
1
[7SH04]
IC433
[Vcc]
[Vss]
[NC]
V45GD0000353
TC7SH04FU (TE85L, F)
3.3V
C431
100nF (K)
C434
100nF (K)
GND
403:1B
D_MD
111:5C:117:6C:118:5B
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
V45GD0000413
TC74VHCT244AFT (EL)
[VHCT244]
IC431
EN1
EN2
D_MD0I
D_MD1I
D_MD2I
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
5V_CI
C432
100nF (Z)
[Vcc]
[Vss]
V45GD0000420
TC74VHC244FT (EL)
[VHC244]
IC432
[RMX4A]
RM431
22 (J)
[RMX4A]
RM432
22 (J)
C433
100nF (Z)
3.3V
GND

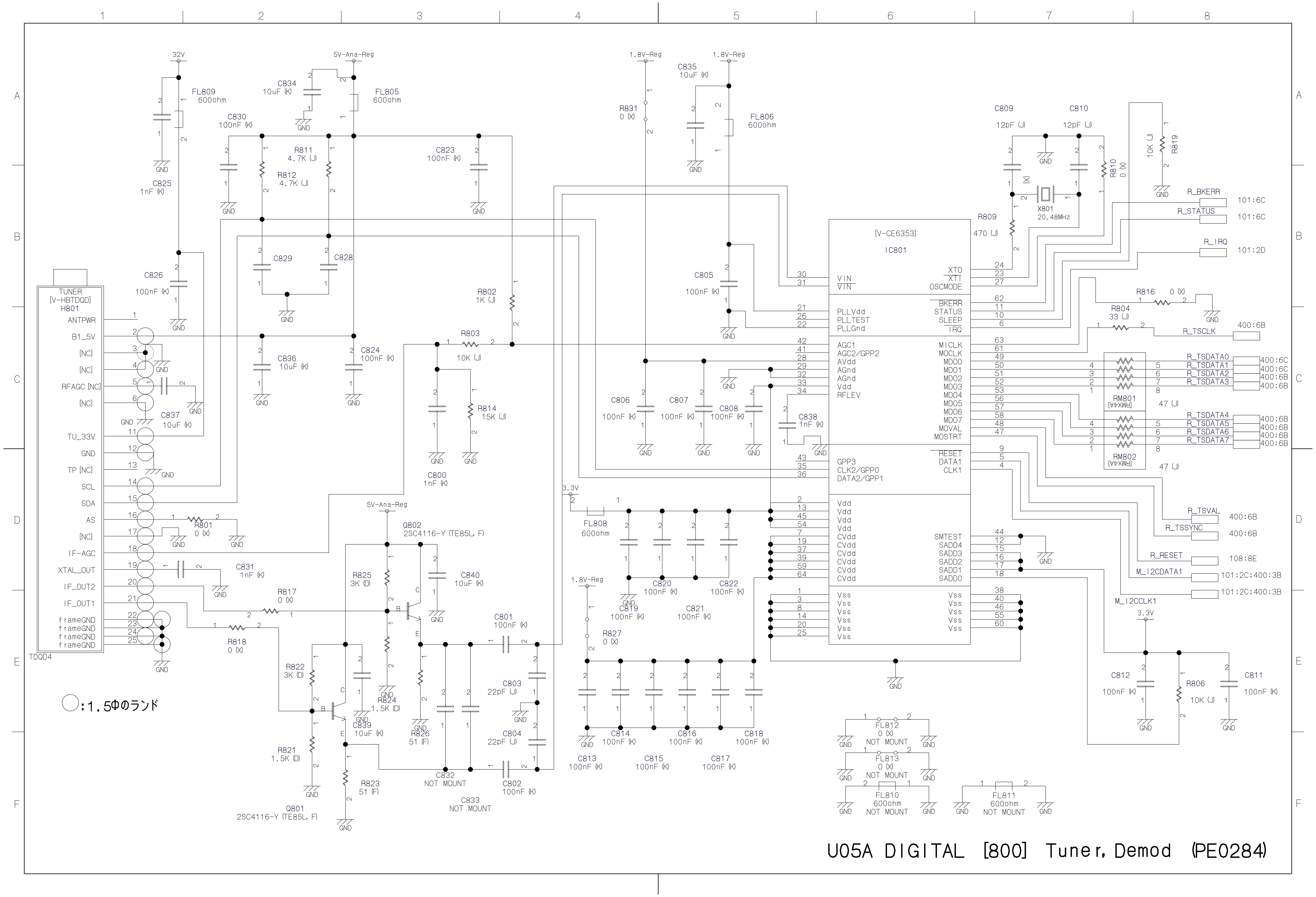
U05A DIGITAL [405] DVBCI I/F (PE0284)


2.5V-cont
6V
NOT MOUNT
R444
R445
0 (X)
V47A00006100
XC6209F502PR
UREG
[V-L6209FXXXP]
IC442
CE
NC
VIN
VOUT
[VSS]
C444
1uF (Z)
C445
10nF (K)
25V
C446
1uF (Z)
GND
5V_CI
C441
1uF (Z)
V47A00011300
[I1607]
IC441
IN
IN
OUT
OUT
OUT
EN
OC
GND
MAX1607ESA+C71055
R443
100K (F)
5V_CARD
C442
100nF (K)
C443
1uF (Z)
5V_CI
4.7K (J)
R442
Q441
2SC4116-Y (TE85L, F)
R441
100 (J)
401:5D
D_CIVCCEN
B
C
E
GND

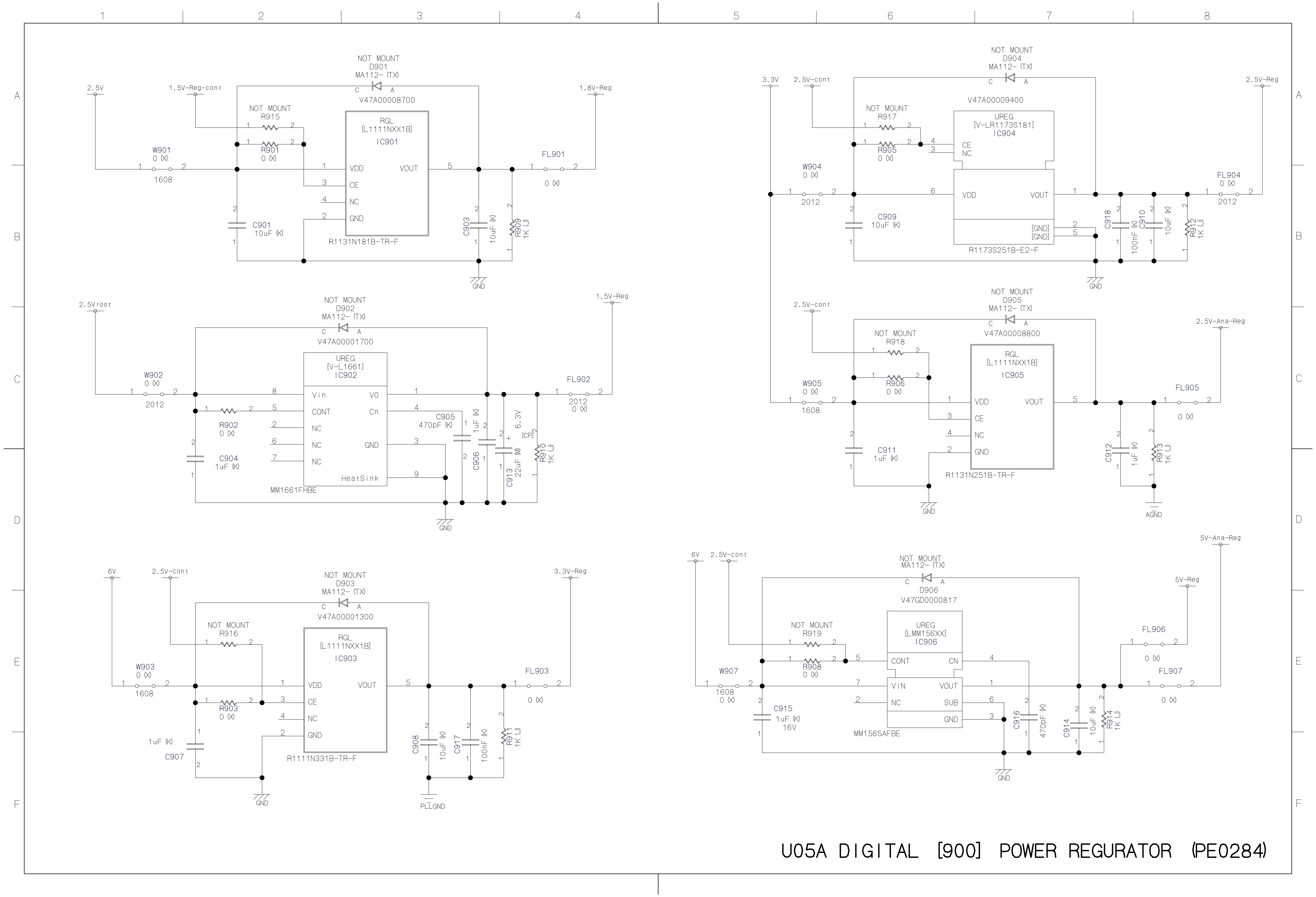
U05A DIGITAL [406] CARDVCC (PE0284)


3.3V
3.3V
R602
NOT MOUNT
R603
NOT MOUNT
1
2
R601
NOT MOUNT
1
2
101:6C
B_USBOVCRNT
TP60
TP61
[TP]
C601
NOT MOUNT
GND
101:2B
B_USBDP
101:2B
B_USBDM
TP62
TP63
NOT MOUNT
NOT MOUNT
GND
GND
R604
R605

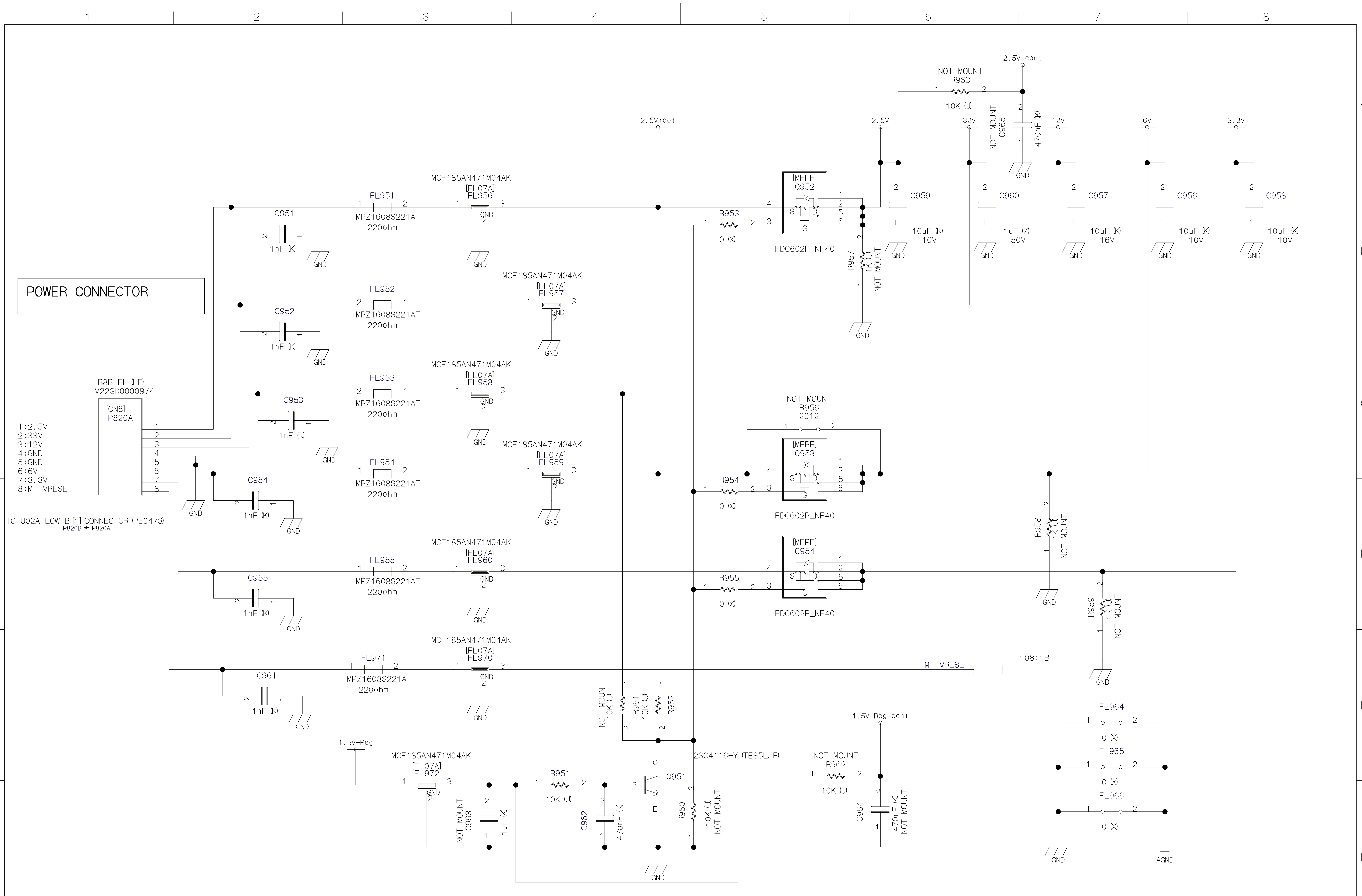
U05A DIGITAL [600] USB (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
32V
5V-Ana-Reg
1.8V-Reg
FL809
600ohm
C834
10uF (K)
FL805
600ohm
C830
100nF (K)
R811
4.7K (J)
R812
4.7K (J)
C823
100nF (K)
C825
1nF (K)
R831
0 (X)
C835
10uF (K)
FL806
600ohm
C809
12pF (J)
C810
12pF (J)
R810
0 (X)
R819
10K (J)
X801
20.48MHz
R809
470 (J)
R_BKERR
R_STATUS
R_IRQ
101:6C
101:2D
C829
C828
C826
100nF (K)
R802
1K (J)
C805
100nF (K)
TUNER
[V-HBTDQD]
H801
ANTPWR
B1_5V
[NC]
RFAGC [NC]
TU_33V
GND
TP [NC]
SCL
SDA
AS
IF-AGC
XTAL_OUT
IF_OUT2
IF_OUT1
frameGND
TDQD4
C836
10uF (K)
C824
100nF (K)
R803
10K (J)
R814
15K (J)
C837
10uF (K)
C800
1nF (K)
R801
0 (X)
C831
1nF (K)
R817
0 (X)
R818
0 (X)
[V-CE6353]
IC801
VIN
PLLVdd
PLLTEST
PLLGnd
AGC1
AGC2/GPP2
AVdd
AGnd
Vdd
RFLEV
GPP3
CLK2/GPP0
DATA2/GPP1
CVdd
Vss
XTO
XTI
OSCMODE
BKERR
STATUS
SLEEP
IRQ
MICLK
MOCLK
MDO0
MDO1
MDO2
MDO3
MDO4
MDO5
MDO6
MDO7
MOVAL
MOSTRT
RESET
DATA1
CLK1
SMTEST
SADD4
SADD3
SADD2
SADD1
SADD0
R816
0 (X)
R804
33 (J)
R_TSCLK
400:6B
R_TSDATA0
R_TSDATA1
R_TSDATA2
R_TSDATA3
R_TSDATA4
R_TSDATA5
R_TSDATA6
R_TSDATA7
400:6C
RM801
RM802
[RMX4A]
47 (J)
R_TSVAL
R_TSSYNC
R_RESET
108:8E
M_I2CDATA1
M_I2CCLK1
101:2C:400:3B
3.3V
C806
100nF (K)
C807
100nF (K)
C808
100nF (K)
C838
1nF (K)
FL808
600ohm
C819
100nF (K)
C820
100nF (K)
C821
100nF (K)
C822
100nF (K)
R827
0 (X)
C813
100nF (K)
C814
100nF (K)
C815
100nF (K)
C816
100nF (K)
C817
100nF (K)
C818
100nF (K)
C812
100nF (K)
R806
10K (J)
C811
100nF (K)
Q802
2SC4116-Y (TE85L, F)
R825
3K (D)
C840
10uF (K)
R822
3K (D)
R824
1.5K (D)
C839
10uF (K)
R826
51 (F)
R821
1.5K (D)
R823
51 (F)
Q801
2SC4116-Y (TE85L, F)
C801
100nF (K)
C803
22pF (J)
C804
22pF (J)
C802
100nF (K)
C832
NOT MOUNT
C833
NOT MOUNT
FL812
0 (X)
NOT MOUNT
FL813
0 (X)
NOT MOUNT
FL810
600ohm
NOT MOUNT
FL811
600ohm
NOT MOUNT
GND
○:1.5Φのランド

U05A DIGITAL [800] Tuner, Demod (PE0284)

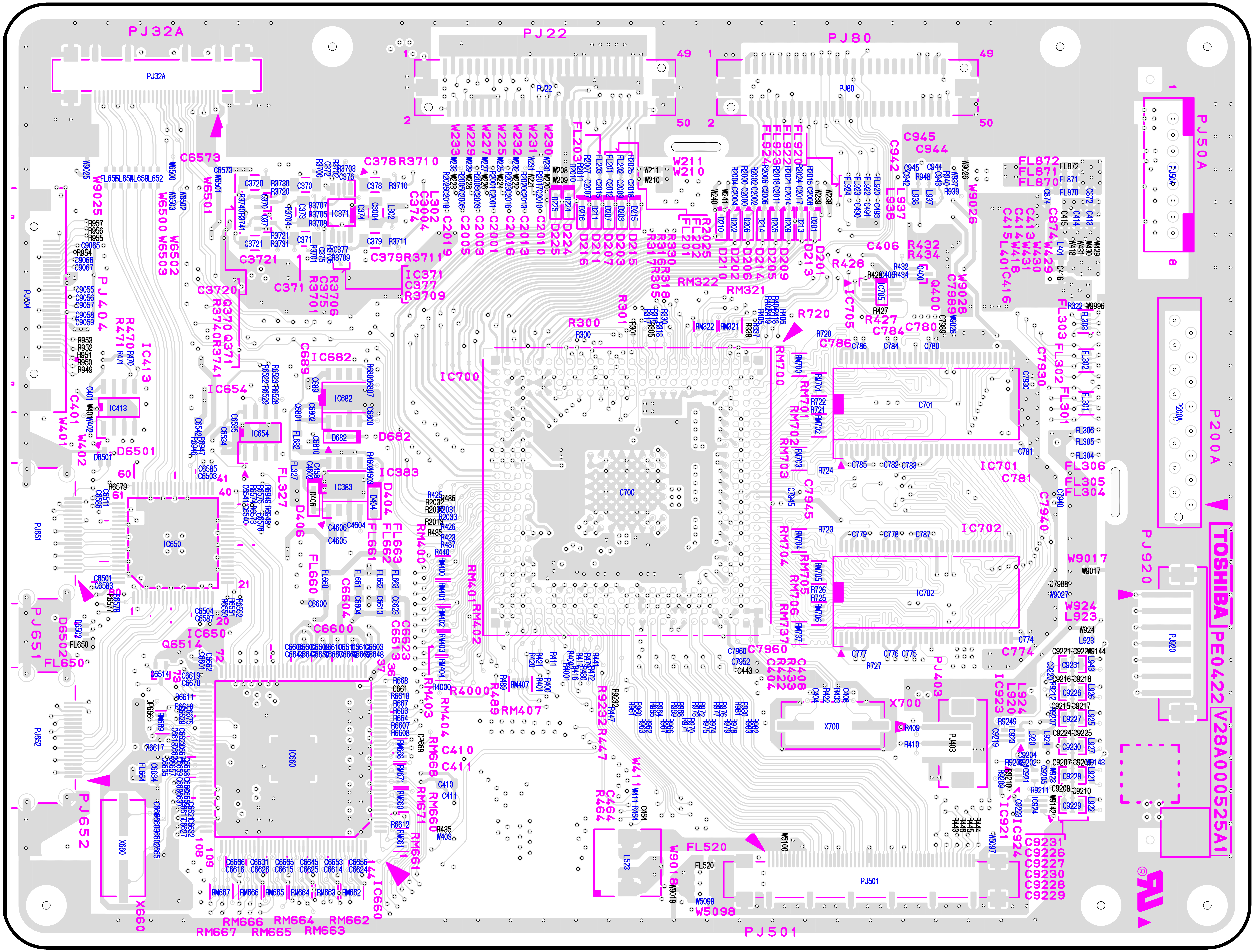

1
2
3
4
5
6
7
8
A
B
C
D
E
F
2.5V
1.5V-Reg-cont
NOT MOUNT
D901
MA112- (TX)
C
A
V47A00008700
1.8V-Reg
NOT MOUNT
R915
R901
0 (X)
W901
0 (X)
1608
RGL
[L1111NXX1B]
IC901
VDD
VOUT
CE
NC
GND
R1131N181B-TR-F
C901
10uF (K)
C903
10uF (K)
R909
1K (J)
FL901
0 (X)
GND
2.5Vroot
NOT MOUNT
D902
MA112- (TX)
V47A00001700
1.5V-Reg
W902
0 (X)
2012
UREG
[V-L1661]
IC902
Vin
CONT
NC
V0
Cn
GND
HeatSink
MM1661FHBE
R902
0 (X)
C904
1uF (K)
C905
470pF (K)
C906
1uF (K)
C913
22uF (M)
6.3V
[CP]
R910
1K (J)
FL902
2012
0 (X)
GND
6V
2.5V-cont
NOT MOUNT
D903
MA112- (TX)
V47A00001300
3.3V-Reg
NOT MOUNT
R916
R903
0 (X)
W903
0 (X)
1608
RGL
[L1111NXX1B]
IC903
R1111N331B-TR-F
C907
1uF (K)
C908
10uF (K)
C917
100nF (K)
R911
1K (J)
FL903
0 (X)
GND
PLLGND
3.3V
2.5V-cont
NOT MOUNT
D904
MA112- (TX)
V47A00009400
2.5V-Reg
NOT MOUNT
R917
R905
0 (X)
UREG
[V-LR1173S181]
IC904
CE
NC
VDD
VOUT
[GND]
[GND]
R1173S251B-E2-F
W904
0 (X)
2012
C909
10uF (K)
C918
100nF (K)
C910
10uF (K)
R912
1K (J)
FL904
0 (X)
2012
GND
2.5V-cont
NOT MOUNT
D905
MA112- (TX)
V47A00008800
2.5V-Ana-Reg
NOT MOUNT
R918
R906
0 (X)
RGL
[L1111NXX1B]
IC905
R1131N251B-TR-F
W905
0 (X)
1608
C911
1uF (K)
C912
1uF (K)
R913
1K (J)
FL905
0 (X)
GND
AGND
6V
2.5V-cont
NOT MOUNT
MA112- (TX)
D906
V47GD0000817
5V-Ana-Reg
5V-Reg
NOT MOUNT
R919
R908
0 (X)
UREG
[LMM156XX]
IC906
CONT
CN
VIN
VOUT
NC
SUB
GND
MM1565AFBE
W907
1608
0 (X)
C915
1uF (K)
16V
C916
470pF (K)
C914
10uF (K)
R914
1K (J)
FL906
0 (X)
FL907
0 (X)
GND

U05A DIGITAL [900] POWER REGURATOR (PE0284)

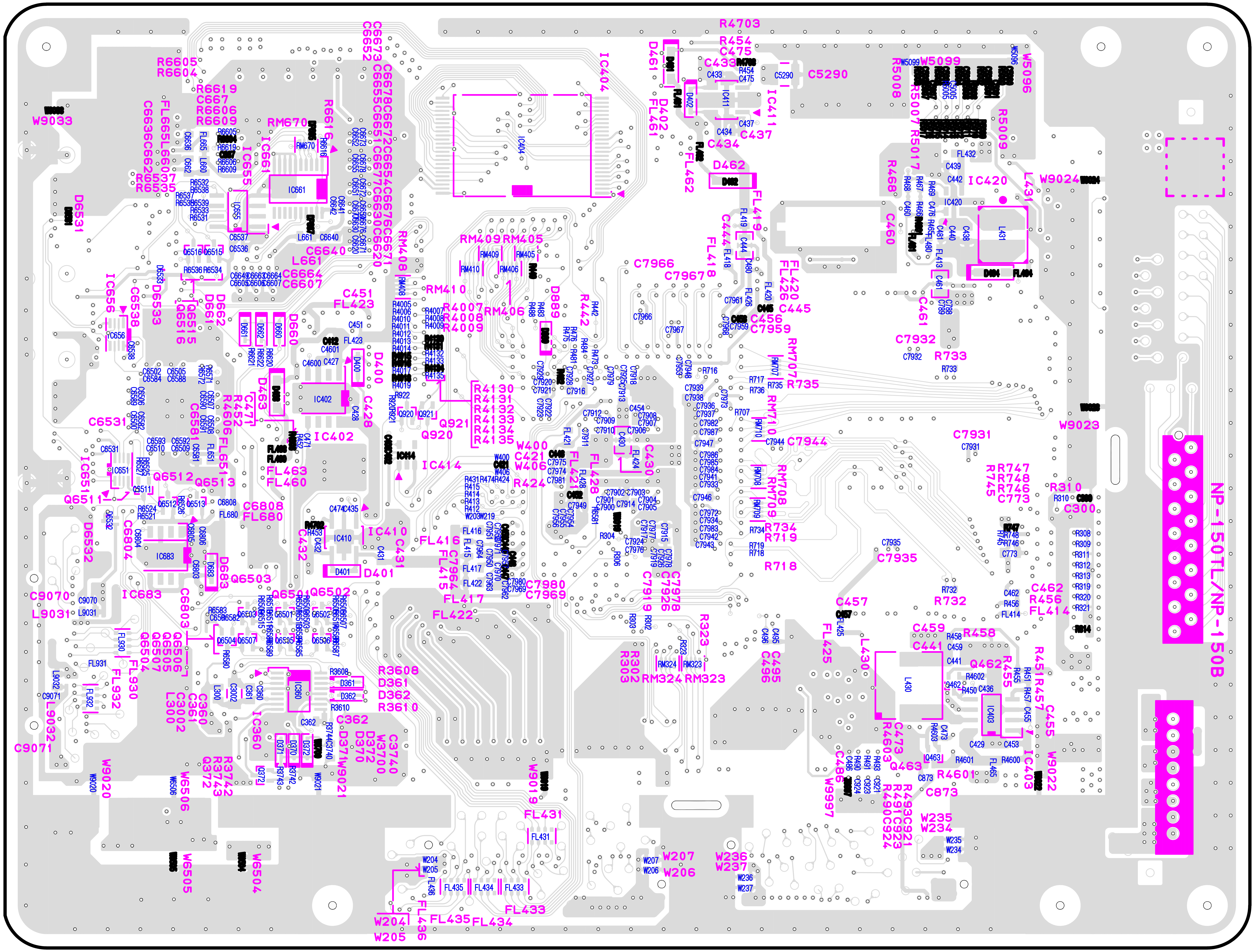

1
2
3
4
5
6
7
8
A
B
C
D
E
F
POWER CONNECTOR
B8B-EH (LF)
V22GD0000974
[CN8]
P820A
1:2.5V
2:33V
3:12V
4:GND
5:GND
6:6V
7:3.3V
8:M_TVRESET
TO U02A LOW_B [1] CONNECTOR (PE0473)
P820B ← P820A
2.5Vroot
2.5V
32V
12V
6V
3.3V
2.5V-cont
1.5V-Reg
1.5V-Reg-cont
NOT MOUNT
R963
10K (J)
C965
470nF (K)
FL951
MPZ1608S221AT
220ohm
FL952
FL953
FL954
FL955
FL971
MCF185AN471M04AK
[FL07A]
FL956
FL957
FL958
FL959
FL960
FL970
FL972
C951
C952
C953
C954
C955
C961
1nF (K)
GND
AGND
R953
R954
R955
0 (K)
[MFPF]
Q952
Q953
Q954
FDC602P_NF40
R957
1K (J)
R956
2012
R958
R959
C959
10uF (K)
10V
C960
1uF (Z)
50V
C957
16V
C956
C958
M_TVRESET
108:1B
FL964
FL965
FL966
R961
R952
10K (J)
Q951
2SC4116-Y (TE85L, F)
R951
C963
1uF (K)
C962
470nF (K)
R960
R962
C964

U05A DIGITAL [901] POWER CONNECTOR (PE0284)

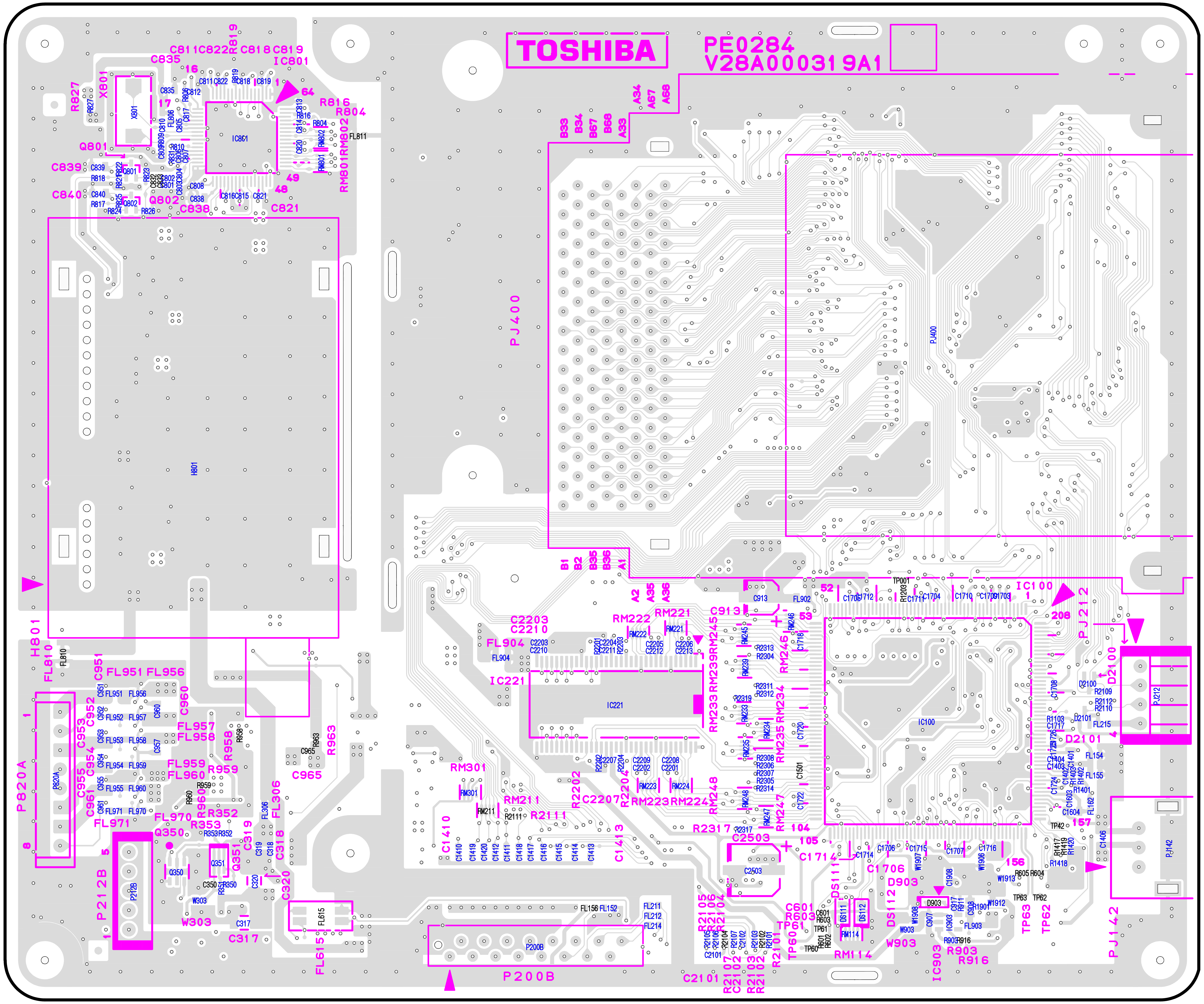
U04AS SIGNAL [Top] (PE0422)


PJ32A
PJ22
PJ80
PJ50A
P200A
PJ920
PJ403
PJ404
PJ651
PJ652
PJ501
IC700
IC701
IC702
IC705
IC371
IC383
IC413
IC650
IC654
IC660
IC682
IC921
IC923
IC924
X660
X700
FL520
FL650
D6501
D6502
Q6514
W9017
W924
L923
TOSHIBA
PE0422V28A000525A1

U04AS SIGNAL [Bottom] (PE0422)

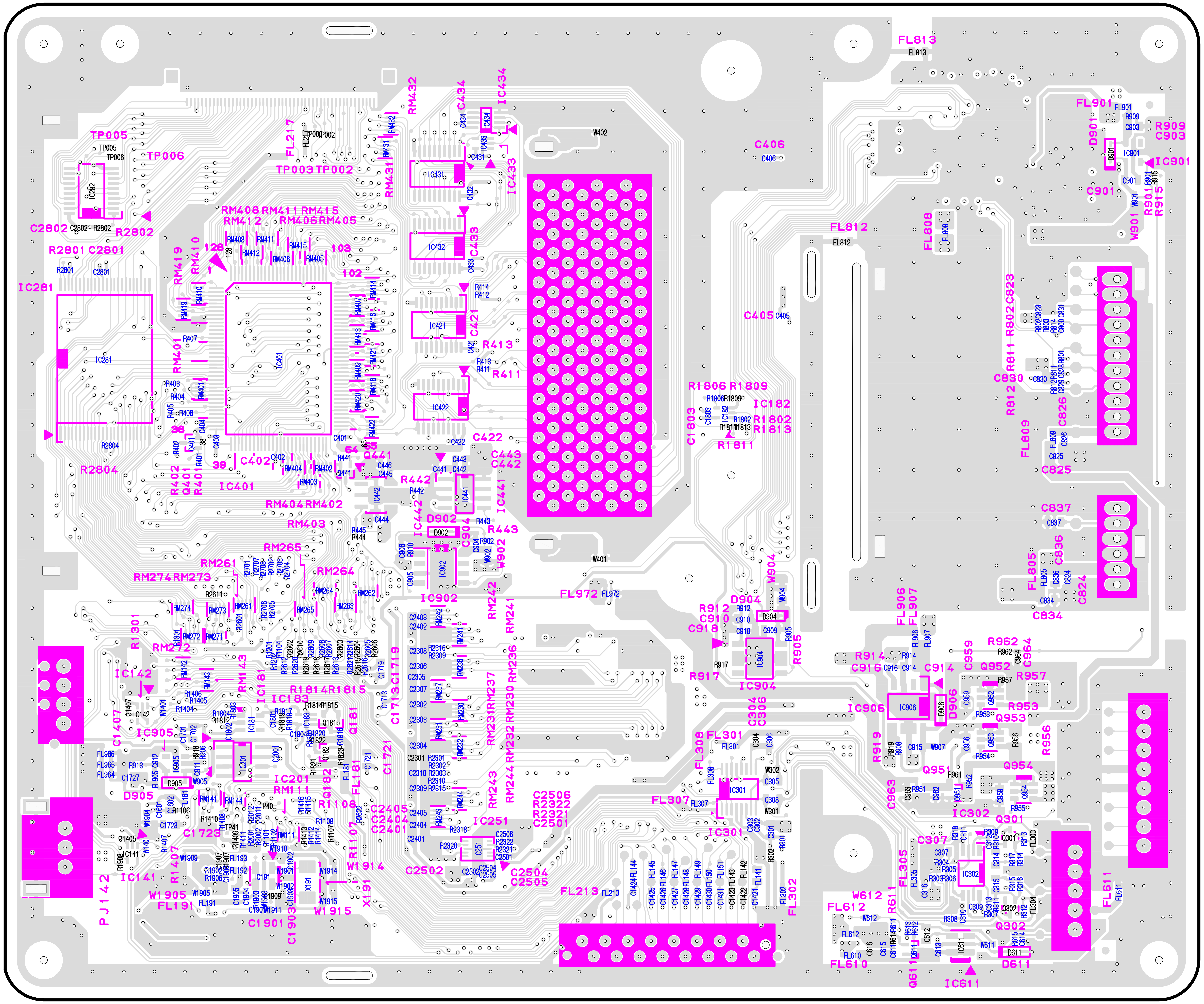

R4703
R454
C475
C433
D461
D402
FL461
C5290
IC404
IC411
C437
C434
FL462
D462
W5099
W5096
R5008
R5007
R5017
R5009
R468
IC420
W9024
L431
C460
FL419
C444
FL418
FL420
FL426
C445
C456
C7959
C461
C7932
R733
RM707
R735
C7966
C7967
RM409
RM405
RM408
RM410
R4007
R4008
R4009
RM406
D669
R442
R6605
R6604
R6619
C667
R6606
R6609
RM670
R6616
IC661
IC655
W9033
C6636
C6626
FL665
L660
R6537
R6535
D6531
C6640
L661
C6664
C6607
C451
FL423
C6673
C6652
C6678
C6655
C6671
C6620
IC656
C6538
D6533
Q6515
Q6516
D662
D661
D660
D400
D463
C471
R452
R4606
C428
IC402
C6531
FL651
IC651
Q6511
Q6512
Q6513
FL463
FL460
Q921
Q920
R4130
R4131
R4132
R4133
R4134
R4135
W400
C421
W406
R424
IC414
FL421
FL428
C430
RM710
C7944
C7931
R747
R748
R746
R745
C773
R310
C300
W9023
RM708
RM709
R734
R719
R718
C7935
NP-150TL/NP-150B
C6808
FL680
C6804
IC683
D6532
D683
Q6503
IC410
C432
C431
D401
FL416
C7964
FL415
FL417
FL422
C7980
C7969
C7919
C7926
C7978
R323
R303
R302
RM324
RM323
C495
C496
FL425
L430
C457
R732
C462
R456
FL414
C459
R458
C441
Q462
R455
R451
R457
C455
IC403
W9022
C473
R4603
Q463
R4601
C873
R4908
W9997
R493
R491
C921
C923
C924
W235
W234
C9070
L9031
IC683
C6803
Q6501
Q6502
Q6506
Q6505
Q6507
Q6504
FL931
FL930
FL932
L9032
C9071
L300
C300
C301
C302
C361
C360
IC360
R3608
D361
D362
R3610
C362
D371
D370
D372
W3700
C3740
W9021
R3742
R3743
Q372
W9020
W6506
W6505
W6504
W9019
FL431
W207
W206
W236
W237
W204
W205
FL436
FL435
FL434
FL433

U05A DIGITAL [Top] (PE0284)



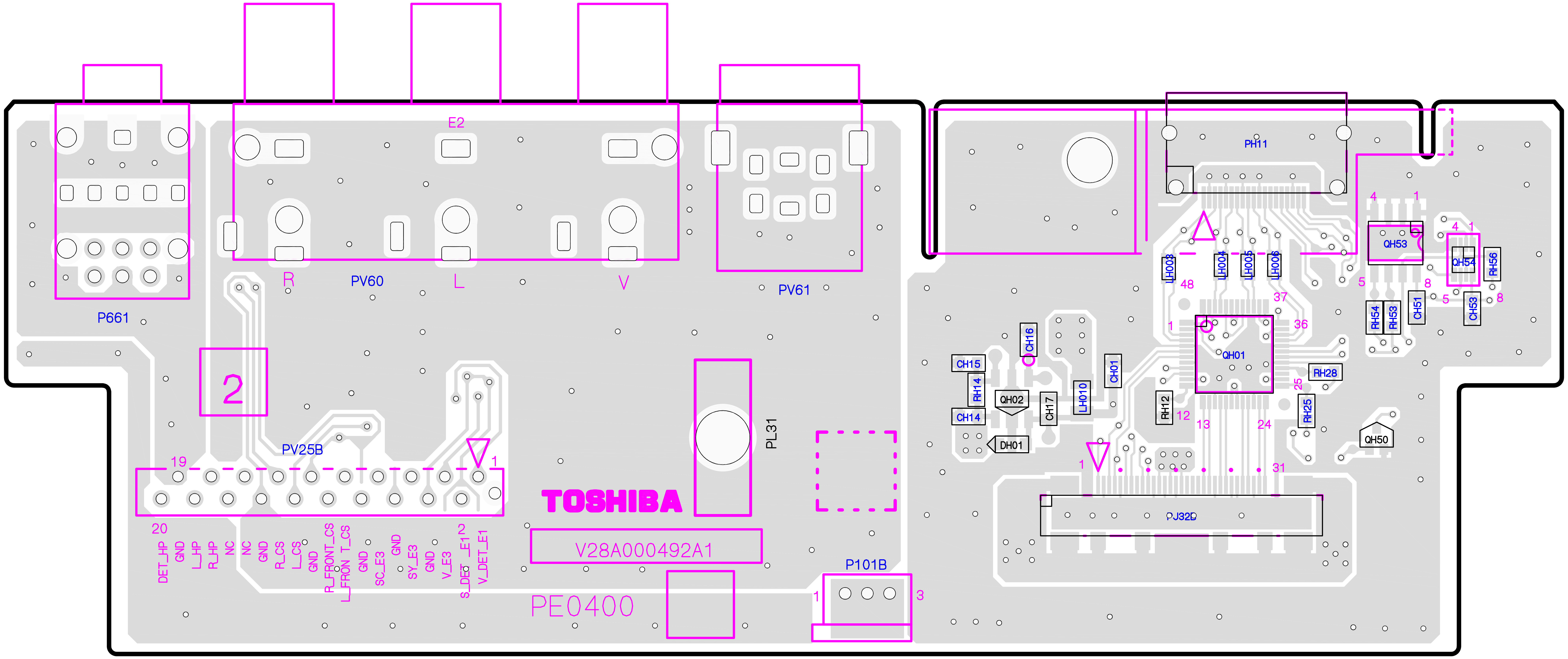
TOSHIBA
PE0284
V28A00031 9A1
PJ400
IC801
X801
C835
C811
C822
R819
C818
C819
R816
R804
RM801
RM802
R827
Q801
C839
C840
Q802
C838
C821
H801
FL810
P820A
FL951
FL956
C951
C952
C953
C954
C955
C961
C960
FL957
FL958
FL959
FL960
FL970
FL971
R958
R959
R960
R963
C965
R352
R353
Q350
Q351
C319
C318
C320
FL306
FL615
P212B
W303
C317
P200B
IC221
FL904
C2203
C2210
RM222
RM221
RM301
RM211
R2111
R2202
R2204
C2207
RM223
RM224
C1410
C1413
C913
RM245
RM246
RM239
RM233
RM234
RM235
RM248
RM247
R2317
C2503
C1714
C1706
IC100
PJ212
D2100
D2101
PJ142
D903
DS112
DS111
W903
IC903
R903
R916
RM114
C601
R603
TP61
TP60
TP63
TP62
R2105
R2104
R2107
R2102
R2103
R2101
C2101

U05A DIGITAL [Bottom] (PE0284)

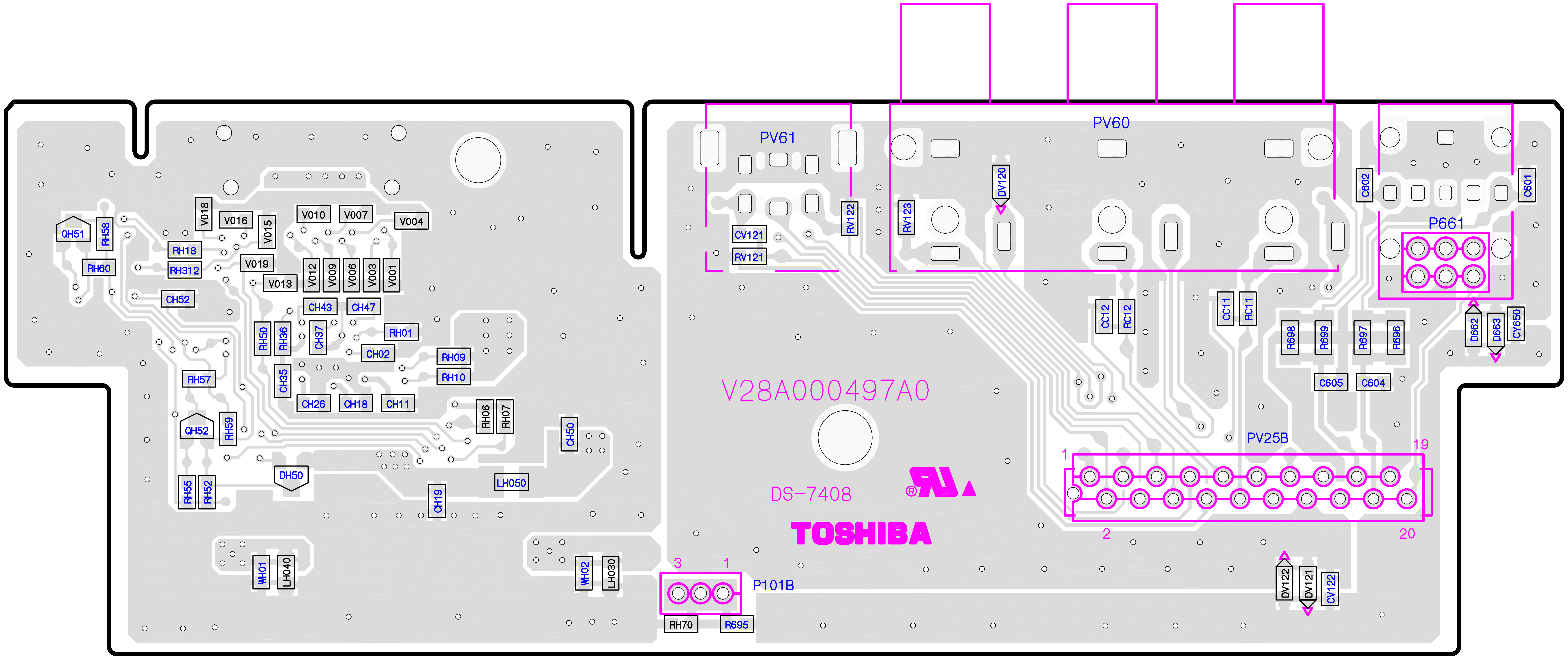


TP005
TP006
C2802
R2802
R2801
C2801
IC281
R2804
FL217
TP003
TP002
RM432
C434
IC434
IC433
C433
C421
R413
R411
C422
C443
C442
R442
Q441
IC441
IC442
D902
R443
C904
W902
IC902
RM408
RM411
RM415
RM412
RM406
RM405
128
103
102
RM419
RM410
RM401
IC401
C402
Q401
R402
R401
RM404
RM402
RM403
RM265
RM261
RM264
RM274
RM273
R1301
RM272
IC142
C1407
IC905
D905
C1723
IC201
RM111
Q182
R1108
R1107
W1914
X191
C1721
C1713
C1719
IC181
RM143
IC183
R1814
R1815
Q181
C2405
C2404
C2401
IC251
C2502
C2504
C2505
C2506
R2322
R2321
C2501
RM243
RM244
RM232
RM231
RM230
RM237
RM236
RM241
RM242
FL972
IC141
R1407
W1905
FL191
C1901
C1903
W1915
PJ142
FL213
FL302
FL813
FL901
R909
C903
D901
IC901
C901
W901
R901
R915
C406
FL812
FL808
C405
R1806
R1809
IC182
C1803
R1802
R1813
R1811
R802
C823
R811
C830
R812
C826
FL809
C825
C837
C836
FL805
C824
C834
W904
D904
R912
C910
C918
R905
R917
IC904
C304
C306
FL301
FL308
FL307
IC301
FL906
FL907
R914
C916
C914
C959
R962
Q952
C964
R957
IC906
D906
R953
Q953
R919
R956
Q951
Q954
C963
IC302
Q301
C307
FL305
W612
R611
FL612
FL610
Q611
IC611
D611
Q302
FL611

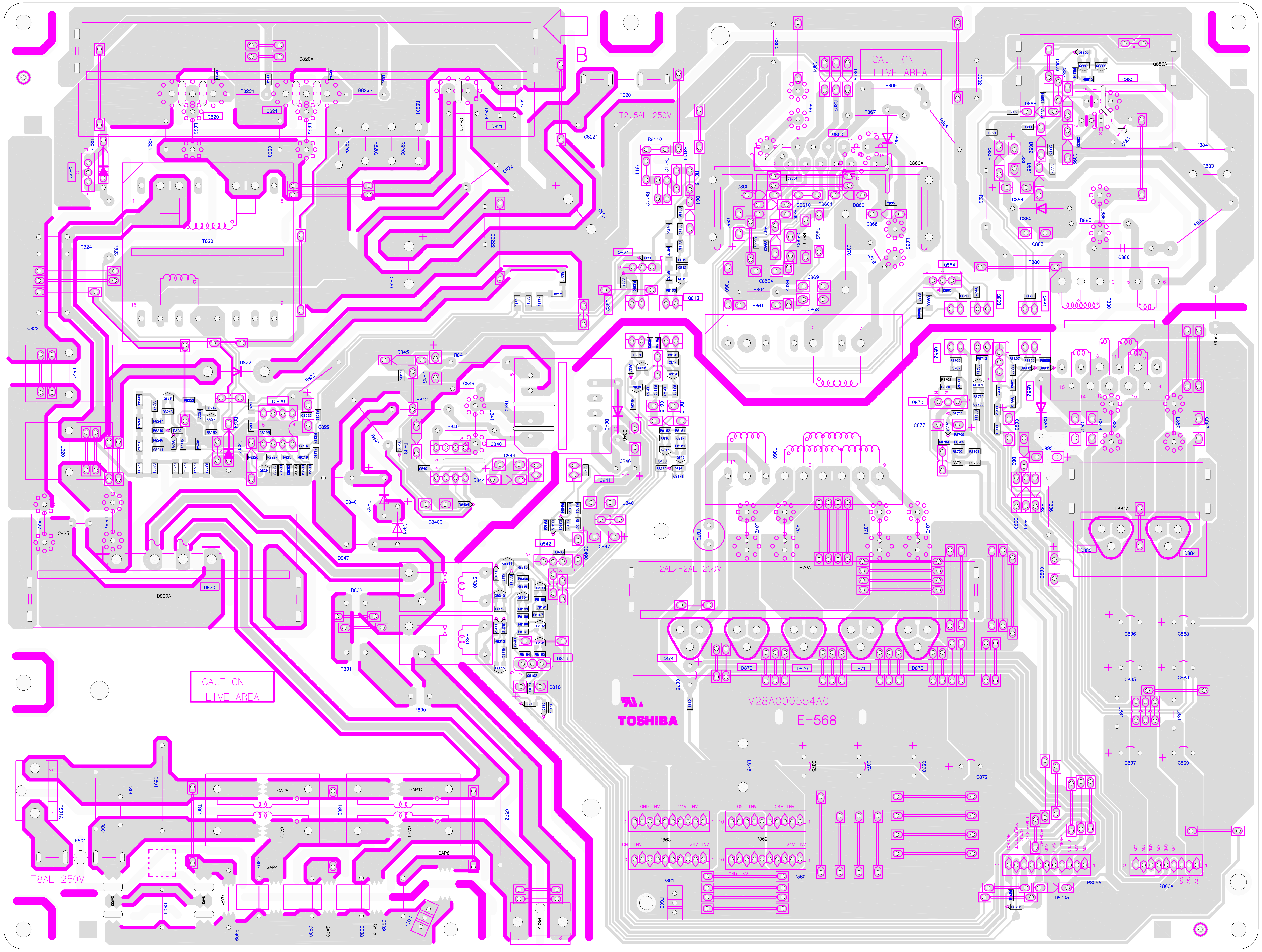
U06A FRONT_HDMI [Top] (PE0400)


P661
E2
R
PV60
L
V
PV61
PH11
4
1
QH53
4
1
QH54
RH56
LH003
LH004
LH005
LH006
48
37
5
8
5
8
RH54
RH53
CH51
CH53
1
36
QH01
CH16
CH15
RH14
CH14
QH02
DH01
CH17
LH010
CH01
RH12
12
13
24
25
RH28
RH25
QH50
1
31
PJ32D
2
PV25B
19
1
20
2
DET_HP
GND
L_HP
R_HP
NC
NC
GND
R_CS
L_CS
GND
R_FRONT_CS
L_FRON T_CS
GND
SC_E3
GND
SY_E3
GND
V_E3
S_DET _E1
V_DET_E1
TOSHIBA
PL31
V28A000492A1
PE0400
P101B
1
3

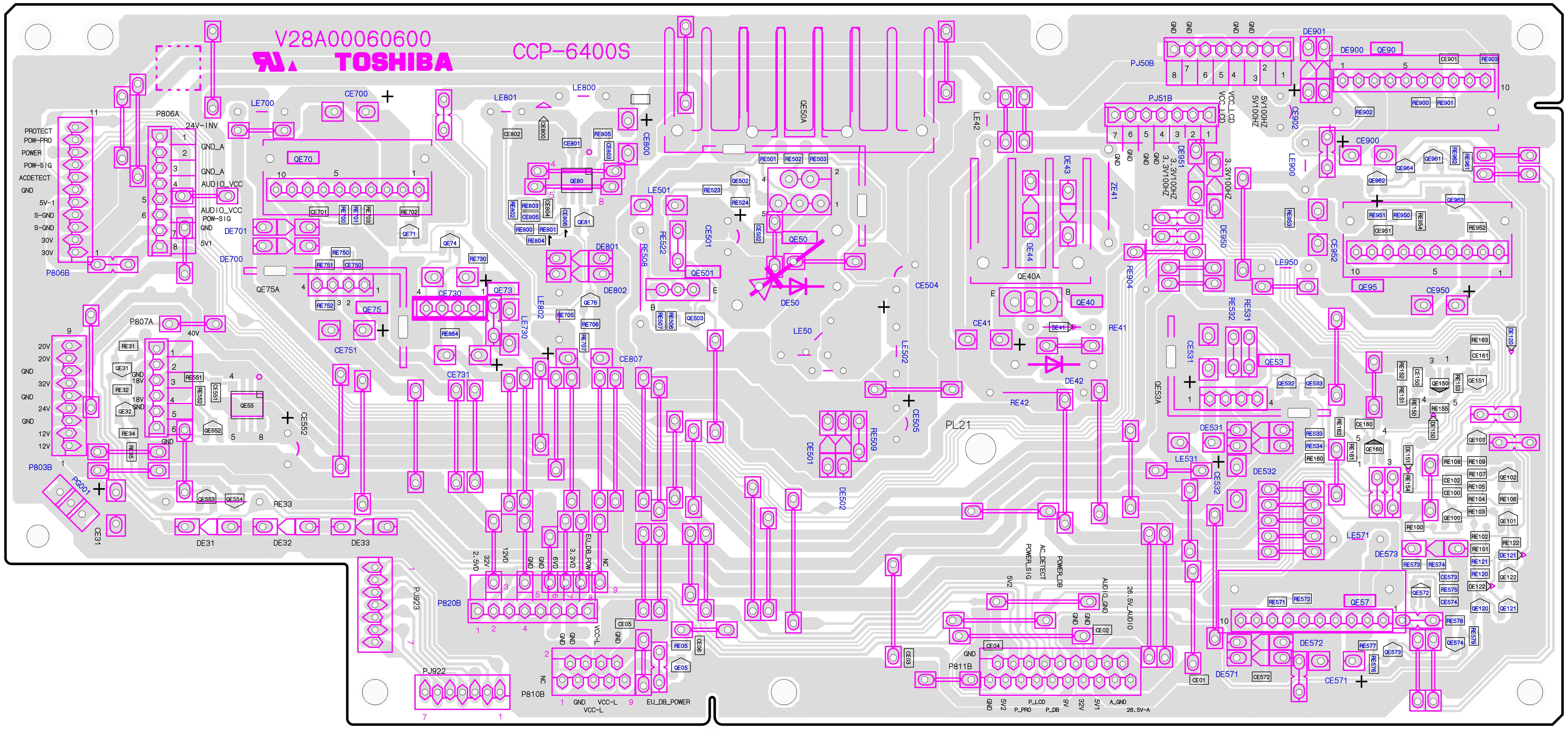
U06A FRONT_HDMI [Bottom] (PE0400)


QH51
RH58
RH60
RH18
RH312
CH52
V018
V016
V015
V010
V007
V004
V019
V013
V012
V009
V006
V003
V001
CH43
CH47
RH50
RH36
CH37
RH01
CH02
RH09
RH10
RH57
CH35
CH26
CH18
CH11
RH06
RH07
QH52
RH59
CH50
DH50
LH050
CH19
RH55
RH52
WH01
LH040
WH02
LH030
3
1
P101B
RH70
R695
PV61
CV121
RV121
RV122
RV123
DV120
PV60
C602
C601
P661
CC12
RC12
CC11
RC11
R698
R699
R697
R696
D662
D663
CY650
C605
C604
V28A000497A0
DS-7408
TOSHIBA
PV25B
1
19
2
20
DV122
DV121
CV122

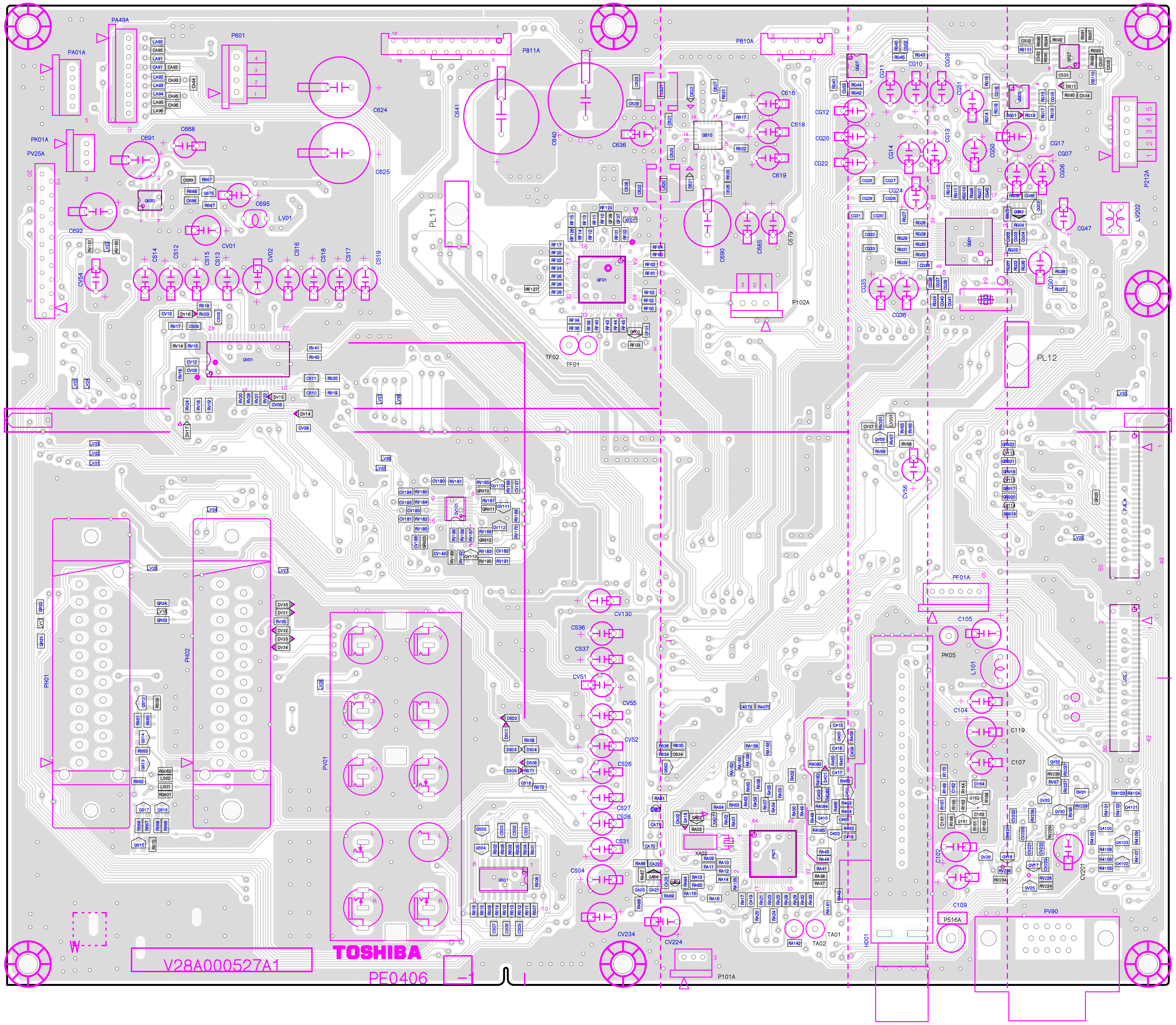
U01A POWER [Bottom] (PE0401)


B
CAUTION
LIVE AREA
T2.5AL 250V
T2AL/F2AL 250V
T8AL 250V
CAUTION
LIVE AREA
TOSHIBA
V28A000554A0
E-568
T820
Q820A
D820A
D870A
Q860A
Q880A
D884A
F820
F801
P801
P802
P803
P860
P861
P862
P863
P806A
P803A
GND INV
24V INV

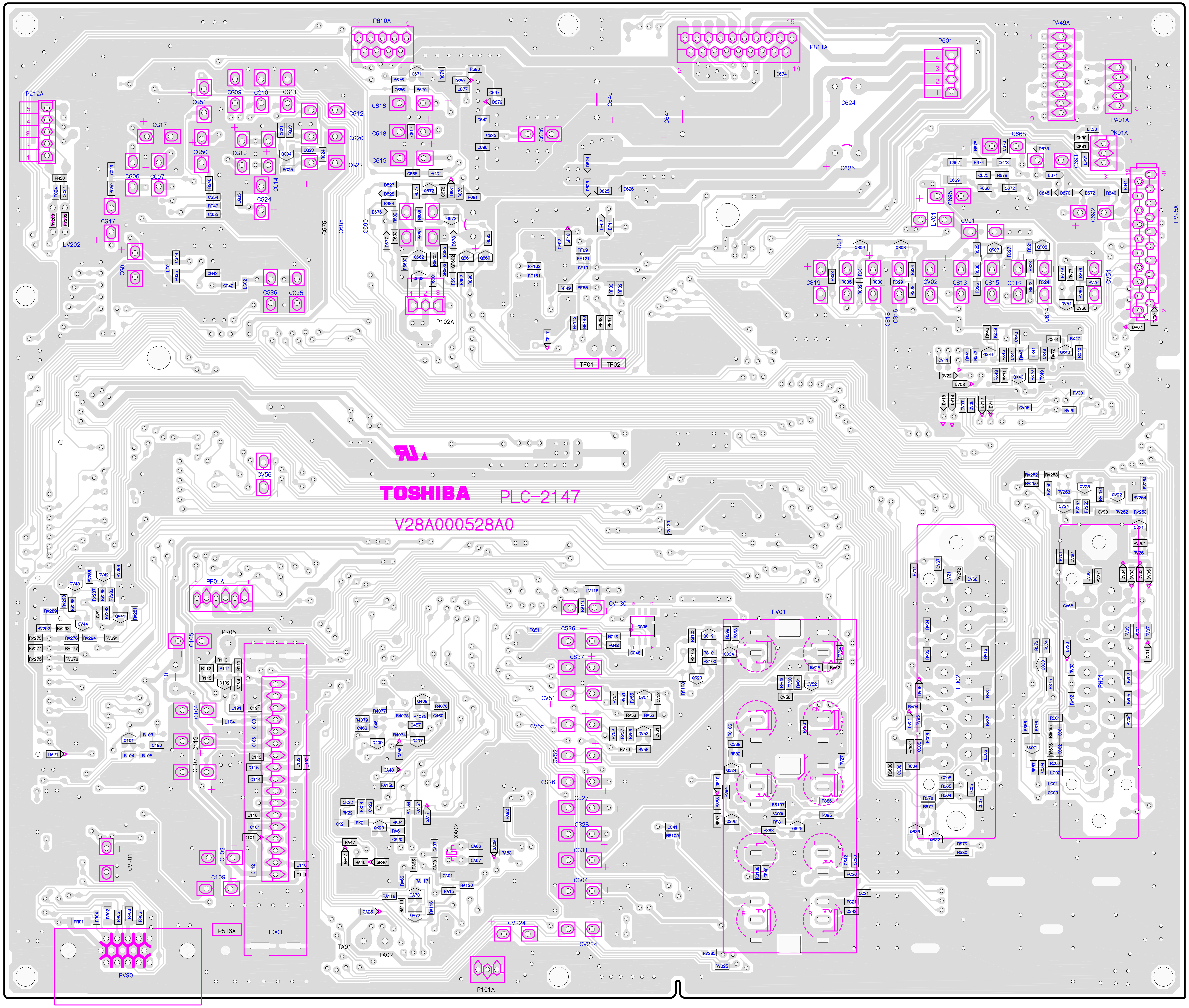
U02A LOW_B [Bottom] (PE0473)


V28A00060600
TOSHIBA
CCP-6400S
P806B
P806A
P807A
P803B
P9001
P820B
P810B
P811B
PJ922
PJ923
PJ50B
PJ51B
PL21
PROTECT
POW-PRO
POWER
POW-SIG
ACDETECT
GND
5V-1
S-GND
30V
24V-INV
GND_A
AUDIO_VCC
POW-SIG
5V1
40V
20V
32V
24V
12V
18V
DE50
DE31
DE32
DE33
DE40A
QE50A
CE800
LE800
LE801
LE700
LE501
LE502
LE42
LE50
LE900
LE950
LE531
LE571
RE33
RE41
RE42
3.3V
EU_DB_POWER
VCC-L
NC
POWER_SIG
AC_DETECT
POWER_DB
AUDIO_GND
26.5V_AUDIO
5V100HZ
3.3V100HZ
VCC_LCD
P_LCD
P_DB
P_PRO
A_GND
26.5V-A

U03A AV_TERM [Top] (PE0406)

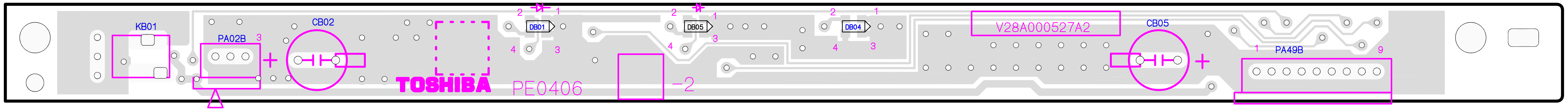

TOSHIBA
V28A000527A1
PE0406
P601
P811A
P810A
P212A
LV202
PL11
PL12
PF01A
PK05
L101
P516A
PV90
P101A
P102A
PA49A
PA01A
PK01A
PV25A
PH01
PH02
PV01
H001
TF01
TF02
TA01
TA02
C624
C625
C641
C640
C105
C104
C107
C109
C119
CV130
CV224
CV234

U03A AV_TERM [Bottom] (PE0406)

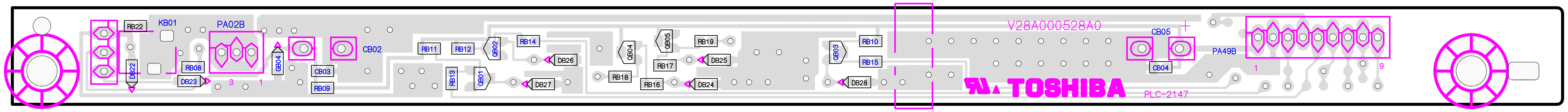


TOSHIBA
PLC-2147
V28A000528A0
P810A
P811A
P601
PA49A
PA01A
PK01A
P212A
PV25A
P102A
PF01A
PK05
H001
P516A
PV90
PV01
PM02
PH01
P101A
TF01
TF02
TA01
TA02
LV202

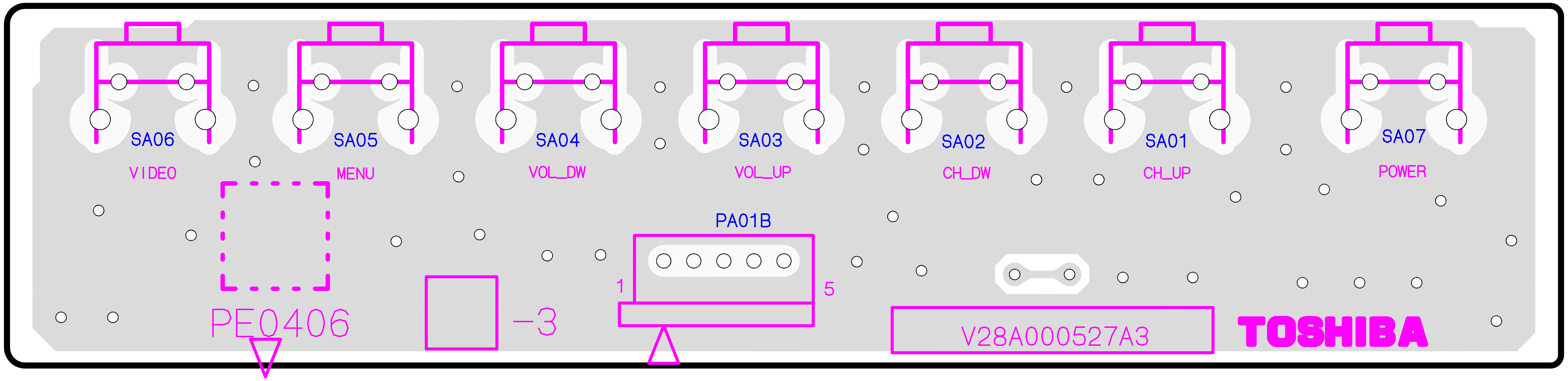
U03B LED [Top] (PE0406)


KB01
PA02B
3
CB02
+
TOSHIBA
PE0406
2
1
DB01
4
3
−2
2
1
DB05
4
3
2
1
DB04
4
3
V28A000527A2
CB05
+
1
PA49B
9

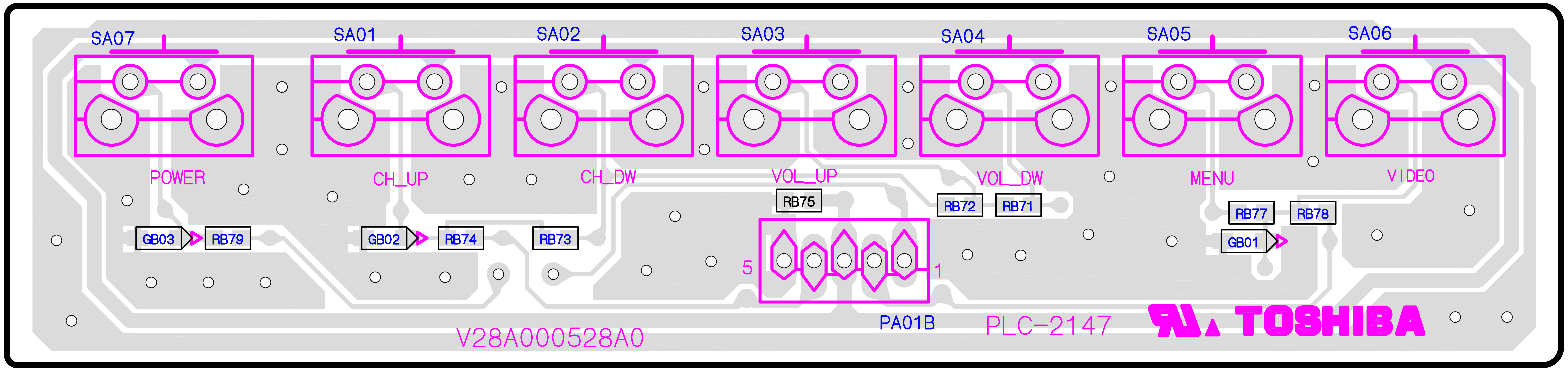
U03B LED [Bottom] (PE0406)


RB22
KB01
PA02B
DB22
RB08
DB23
3
1
GB04
CB03
RB09
CB02
RB11
RB12
RB13
QB02
QB01
RB14
DB26
DB27
RB18
QB04
QB05
RB17
RB16
RB19
DB25
DB24
QB03
RB10
RB15
DB28
V28A000528A0
TOSHIBA
PLC-2147
CB05
+
CB04
PA49B
1
9

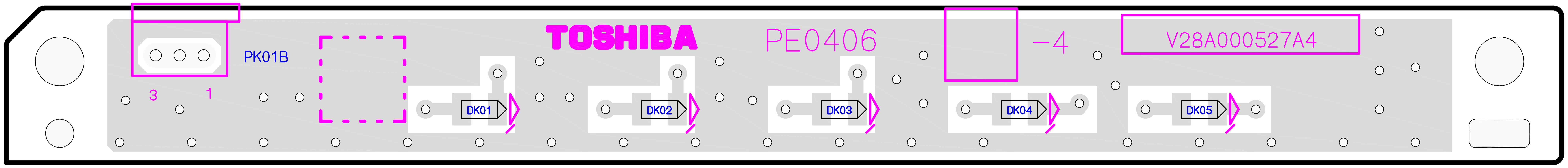
U03C KEY [Top] (PE0406)


SA06
VIDEO
SA05
MENU
SA04
VOL_DW
SA03
VOL_UP
SA02
CH_DW
SA01
CH_UP
SA07
POWER
PA01B
1
5
PE0406
-3
V28A000527A3
TOSHIBA

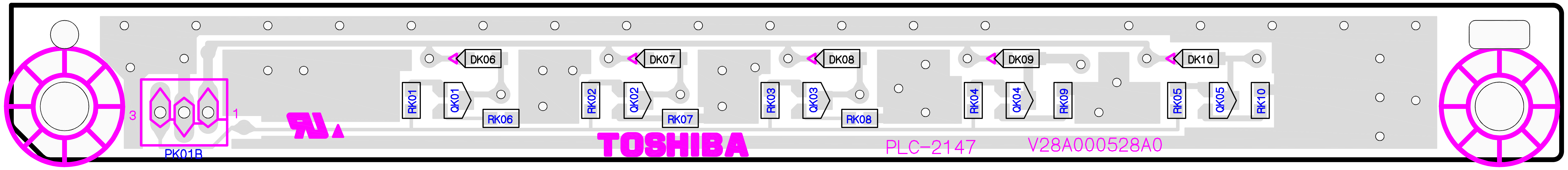
U03C KEY [Bottom] (PE0406)


SA07
SA01
SA02
SA03
SA04
SA05
SA06
POWER
CH_UP
CH_DW
VOL_UP
VOL_DW
MENU
VIDEO
RB75
RB72
RB71
RB77
RB78
GB03
RB79
GB02
RB74
RB73
GB01
5
1
PA01B
V28A000528A0
PLC-2147
TOSHIBA

U03D ILLUMI [Top] (PE0406)


PK01B
3
1
TOSHIBA
PE0406
-4
V28A000527A4
DK01
DK02
DK03
DK04
DK05

U03D ILLUMI [Bottom] (PE0406)


DK06
DK07
DK08
DK09
DK10
3
1
PK01B
RK01
QK01
RK06
RK02
QK02
RK07
RK03
QK03
RK08
RK04
QK04
RK09
RK05
QK05
RK10
TOSHIBA
PLC-2147
V28A000528A0